

# Arvind Khuntia

## List of Publications by Year in descending order

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92  
papers

1,700  
citations

257101

24  
h-index

344852

36  
g-index

95  
all docs

95  
docs citations

95  
times ranked

2236  
citing authors

#	ARTICLE	IF	CITATIONS
1	Transverse momentum spectra and nuclear modification factors of charged particles in pp, p-Pb and Pb-Pb collisions at the LHC. Journal of High Energy Physics, 2018, 2018, 1.	1.6	97
2	Radial flow in non-extensive thermodynamics and study of particle spectra at LHC in the limit of small $(q - 1)$ . European Physical Journal A, 2016, 52, 1.	1.0	66
3	Measurement of D-meson production at mid-rapidity in pp collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2017, 77, 1.	1.4	62
4	Energy dependence and fluctuations of anisotropic flow in Pb-Pb collisions at $\sqrt{s_{NN}} = 5.02$ and 2.76 TeV. Journal of High Energy Physics, 2018, 2018, 1.	1.6	55
5	Measurement of $D_0$ , $D^+$ , $D^{*+}$ and $D^+$ production in Pb-Pb collisions at $\sqrt{s_{NN}} = 5.02$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	1.6	54
6	Energy dependence of forward-rapidity $\frac{J}{\psi}$ and $\frac{\psi(2S)}{\psi}$ production in pp collisions at the LHC. European Physical Journal C, 2017, 77, 392.	1.4	50
7	Charged-particle production as a function of multiplicity and transverse sphericity in pp collisions at $\sqrt{s} = 5.02$ and 13 TeV. European Physical Journal C, 2019, 79, 1.	1.4	49
8	Multiplicity dependence of (multi-)strange hadron production in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2020, 80, 1.	1.4	49
9	Determination of the event collision time with the ALICE detector at the LHC. European Physical Journal Plus, 2017, 132, 1.	1.2	44
10	Measurement of $D^0$ , $D^+$ , $D^{*+}$ and $D^+$ production in pp collisions at $\sqrt{s} = 5.02$ TeV with ALICE. European Physical Journal C, 2019, 79, 1.	1.4	43
11	Multiplicity dependence of non-extensive parameters for strange and multi-strange particles in proton-proton collisions at $\sqrt{s} = 7$ TeV at the LHC. European Physical Journal A, 2017, 53, 1.	1.0	42
12	$\Lambda^0$ production in pp collisions at $\sqrt{s} = 7$ TeV and in p-Pb collisions at $\sqrt{s_{NN}} = 5.02$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	1.6	42
13	Measurement of deuteron spectra and elliptic flow in Pb-Pb collisions at $\sqrt{s_{NN}} = 2.76$ TeV at the LHC. European Physical Journal C, 2017, 77, 1.	1.4	40
14	Anisotropic flow of identified particles in Pb-Pb collisions at $\sqrt{s_{NN}} = 5.02$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	1.6	40
15	Multiplicity dependence of $\pi$ , K, and p production in pp collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2020, 80, 1.	1.4	38
16	Production of $\Sigma(1385)^{\pm}$ . European Physical Journal C, 2017, 77, 389.	1.4	36
17	$\pi^0$ and $\eta$ meson production in proton-proton collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2018, 78, 1.	1.4	34
18	Energy dependence of exclusive $\frac{J}{\psi}$ photoproduction off protons in ultra-peripheral Pb-Pb collisions at $\sqrt{s_{NN}} = 5.02$ TeV. European Physical Journal C, 2019, 79, 1.	1.4	34

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19	Charged-particle multiplicity distributions over a wide pseudorapidity range in proton-proton collisions at $\sqrt{s} = 0.9, 7, \text{ and } 8 \text{ TeV}$ . European Physical Journal C, 2017, 77, 1.	1.4	32
20	Insight into particle production mechanisms via angular correlations of identified particles in pp collisions at $\sqrt{s} = 7 \text{ TeV}$ . European Physical Journal C, 2017, 77, 1.	1.4	31
21	Neutral pion and $\eta$ meson production in $\text{p}^{\text{A}}$ -Pb collisions at $\sqrt{s_{\text{NN}}} = 2.76 \text{ TeV}$ . European Physical Journal C, 2018, 78, 1.	1.4	31
22	Radial flow and differential freeze-out in proton-proton collisions at $\sqrt{s} = 7 \text{ TeV}$ at the LHC. European Physical Journal A, 2019, 55, 1.	1.0	29
23	Production of $\pi^0$ and $\eta$ mesons up to high transverse momentum in pp collisions at 2.76 TeV. European Physical Journal C, 2017, 77, 339.	1.4	28
24	(Anti-)deuteron production in pp collisions at $\sqrt{s} = 13 \text{ TeV}$ . European Physical Journal C, 2020, 80, 1.	1.4	24
25	Production of light-flavor hadrons in pp collisions at $\sqrt{s} = 7 \text{ TeV}$ and $\sqrt{s} = 13 \text{ TeV}$ . European Physical Journal C, 2021, 81, 1.	1.4	23
26	Prompt $D_0, D^+, \text{ and } D^{*+}$ production in $\text{Pb}^{\text{A}}$ -Pb collisions at $\sqrt{s_{\text{NN}}} = 5.02 \text{ TeV}$ . Journal of High Energy Physics, 2022, 2022, 1.	1.6	23
27	Medium modification of the shape of small-radius jets in central Pb-Pb collisions at $\sqrt{s_{\text{NN}}} = 2.76 \text{ TeV}$ . Journal of High Energy Physics, 2018, 2018, 1.	1.6	20
28	Speed of sound in hadronic matter using non-extensive Tsallis statistics. European Physical Journal A, 2016, 52, 1.	1.0	19
29	Event multiplicity, transverse momentum and energy dependence of charged particle production, and system thermodynamics in pp collisions at the Large Hadron Collider. Journal of Physics G: Nuclear and Particle Physics, 2020, 47, 055111.	1.4	19
30	Measurement of prompt $D_0, D^+, D^{*+}, \text{ and } \mathcal{D}_s^+$ production in $\text{p}^{\text{A}}$ -Pb collisions at $\sqrt{s_{\text{NN}}} = 5.02 \text{ TeV}$ . Journal of High Energy Physics, 2019, 2019, 1.	1.6	18
31	Coherent $\rho/\psi$ and $\rho/\psi'$ photoproduction at midrapidity in ultra-peripheral $\text{Pb}^{\text{A}}$ -Pb collisions at $\sqrt{s_{\text{NN}}} = 5.02 \text{ TeV}$ . European Physical Journal C, 2021, 81, 1.	1.4	18
32	Measurement of beauty and charm production in pp collisions at $\sqrt{s} = 5.02 \text{ TeV}$ via non-prompt and prompt D mesons. Journal of High Energy Physics, 2021, 2021, 1.	1.6	17
33	Prompt and non-prompt $\rho/\psi$ production and nuclear modification at mid-rapidity in $\text{p}^{\text{A}}$ -Pb collisions at $\sqrt{s_{\text{NN}}} = 5.02 \text{ TeV}$ . European Physical Journal C, 2018, 78, 1.	1.4	16
34	Event-Shape Engineering for the D-meson elliptic flow in mid-central Pb-Pb collisions at $\sqrt{s_{\text{NN}}} = 5.02 \text{ TeV}$ . Journal of High Energy Physics, 2019, 2019, 1.	1.6	16
35	Relative particle yield fluctuations in $\text{Pb-Pb}$ collisions at $\sqrt{s_{\text{NN}}} = 2.76 \text{ TeV}$ . European Physical Journal C, 2019, 79, 1.	1.4	15
36	Higher harmonic non-linear flow modes of charged hadrons in Pb-Pb collisions at $\sqrt{s_{\text{NN}}} = 5.02 \text{ TeV}$ . Journal of High Energy Physics, 2020, 2020, 1.	1.6	15

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37	Constraining the Chiral Magnetic Effect with charge-dependent azimuthal correlations in Pb-Pb collisions at $\sqrt{s_{\mathrm{NN}}} = 2.76$ and 5.02 TeV. Journal of High Energy Physics, 2020, 2020, 1.	1.6	15
38	Transverse-momentum spectra and nuclear modification factor using Boltzmann Transport Equation with flow in Pb+Pb collisions at $\sqrt{s_{\mathrm{NN}}} = 2.76$ s N. European Physical Journal A, 2017, 53, 1.	1.0	14
39	$J/\psi$ elliptic and triangular flow in Pb-Pb collisions at $\sqrt{s_{\mathrm{NN}}} = 5.02$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	1.6	14
40	Inclusive $J/\psi$ production at mid-rapidity in pp collisions at $\sqrt{s} = 5.02$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	1.6	14
41	W and Z boson production in p-Pb collisions at $s_{\mathrm{NN}} = 5.02$ $\sqrt{s_{\mathrm{NN}}} = 5.02$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	1.6	13
42	Searches for transverse momentum dependent flow vector fluctuations in Pb-Pb and p-Pb collisions at the LHC. Journal of High Energy Physics, 2017, 2017, 1.	1.6	13
43	Measurement of the inclusive $J/\psi$ polarization at forward rapidity in pp collisions at $\sqrt{s} = 8$ s. European Physical Journal C, 2018, 78, 1.	1.4	13
44	Studies of $J/\psi$ production at forward rapidity in Pb-Pb collisions at $\sqrt{s_{\mathrm{NN}}} = 5.02$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	1.6	13
45	Event Shape and Multiplicity Dependence of Freeze-Out Scenario and System Thermodynamics in Proton+Proton Collisions at $\sqrt{s} = 13$ TeV. Advances in High Energy Physics, 2021, 2021, 1-19.	0.5	13
46	Charged-particle pseudorapidity density at mid-rapidity in p-Pb collisions at $\sqrt{s_{\mathrm{NN}}} = 8.16$ TeV. European Physical Journal C, 2019, 79, 1.	1.4	12
47	Study of $J/\psi$ azimuthal anisotropy at forward rapidity in Pb-Pb collisions at $\sqrt{s_{\mathrm{NN}}} = 5.02$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	1.6	12
48	Production of pions, kaons, (anti-)protons and $\phi$ mesons in Xe-Xe collisions at $\sqrt{s_{\mathrm{NN}}} = 5.44$ TeV. European Physical Journal C, 2021, 81, 1.	1.4	12
49	Pseudorapidity distributions of charged particles as a function of mid- and forward rapidity multiplicities in pp collisions at $\sqrt{s} = 5.02, 7$ and 13 TeV. European Physical Journal C, 2021, 81, 1.	1.4	12
50	Event shape engineering and multiplicity dependent study of identified particle production in proton + proton collisions at $\sqrt{s} = 13$ TeV using PYTHIA8. Journal of Physics G: Nuclear and Particle Physics, 2021, 48, 035102.	1.4	12
51	Measurement of the production of charm jets tagged with D0 mesons in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	1.6	11
52	Azimuthal correlations of prompt D mesons with charged particles in pp and p-Pb collisions at $\sqrt{s_{\mathrm{NN}}} = 5.02$ TeV. European Physical Journal C, 2020, 80, 1.	1.4	11
53	Coherent photoproduction of $\rho^0$ vector mesons in ultra-peripheral Pb-Pb collisions at $\sqrt{s_{\mathrm{NN}}} = 5.02$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	1.6	11
54	Underlying event properties in pp collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	1.6	11

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55	Measurement of the production cross section of prompt $\Xi_{\mathrm{c}}^0$ baryons at midrapidity in pp collisions at $\sqrt{s} = 5.02$ TeV. Journal of High Energy Physics, 2021, 2021, 1.	1.6	11
56	Effect of Hagedorn states on isothermal compressibility of hadronic matter formed in heavy-ion collisions: From NICA to LHC energies. Physical Review C, 2019, 100, .	1.1	10
57	Measurement of $\Lambda(1520)$ production in pp collisions at $\sqrt{s} = 7$ TeV and p-Pb collisions at $\sqrt{s_{\mathrm{NN}}} = 5.02$ TeV. European Physical Journal C, 2020, 80, 1.	1.4	10
58	Measurement of electrons from beauty-hadron decays in p-Pb collisions at $\sqrt{s_{\mathrm{NN}}} = 5.02$ TeV and Pb-Pb collisions at $\sqrt{s_{\mathrm{NN}}} = 2.76$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	1.6	9
59	Event-shape and multiplicity dependence of freeze-out radii in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	1.6	9
60	Production of light (anti)nuclei in pp collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2022, 2022, 1.	1.6	9
61	Prompt and non-prompt $J/\psi$ production cross sections at midrapidity in proton-proton collisions at $\sqrt{s} = 5.02$ and 13 TeV. Journal of High Energy Physics, 2022, 2022, 1.	1.6	9
62	Inclusive $J/\psi$ production at forward and backward rapidity in p-Pb collisions at $\sqrt{s_{\mathrm{NN}}} = 8.16$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	1.6	8
63	Measurement of the inclusive isolated photon production cross section in pp collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2019, 79, 1.	1.4	8
64	Measurements of the groomed and ungroomed jet angularities in pp collisions at $\sqrt{s} = 5.02$ TeV. Journal of High Energy Physics, 2022, 2022, .	1.6	8
65	Measurements of low-pT electrons from semileptonic heavy-flavour hadron decays at mid-rapidity in pp and Pb-Pb collisions at $\sqrt{s_{\mathrm{NN}}} = 2.76$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	1.6	7
66	Production of light (anti)nuclei in pp collisions at $\sqrt{s} = 5.02$ TeV. European Physical Journal C, 2022, 82, 1.	1.4	7
67	Dielectron production in proton-proton collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	1.6	6
68	Measurement of nuclear effects on $\Upsilon(2S)$ production in p-Pb collisions at $\sqrt{s_{\mathrm{NN}}} = 8.16$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	1.6	6
69	Measurement of inclusive charged-particle b-jet production in pp and p-Pb collisions at $\sqrt{s_{\mathrm{NN}}} = 5.02$ TeV. Journal of High Energy Physics, 2022, 2022, 1.	1.6	6
70	Inclusive $\chi_{\mathrm{c}}/\psi$ production at midrapidity in pp collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2021, 81, 1.	1.4	6
71	Investigating charm production and fragmentation via azimuthal correlations of prompt D mesons with charged particles in pp collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2022, 82, 1.	1.4	6
72	Jet fragmentation transverse momentum measurements from di-hadron correlations in $\sqrt{s} = 7$ TeV pp and $\sqrt{s_{\mathrm{NN}}} = 5.02$ TeV p-Pb collisions. Journal of High Energy Physics, 2019, 2019, 1.	1.6	5

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73	Long- and short-range correlations and their event-scale dependence in high-multiplicity pp collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2021, 2021, 1.	1.6	5
74	Energy dependence of $\phi$ meson production at forward rapidity in pp collisions at the LHC. European Physical Journal C, 2021, 81, 1.	1.4	5
75	Anisotropic flow of identified hadrons in Xe-Xe collisions at $\sqrt{s_{\text{NN}}} = 5.44$ TeV. Journal of High Energy Physics, 2021, 2021, 1.	1.6	5
76	Production of muons from heavy-flavour hadron decays in pp collisions at $\sqrt{s} = 5.02$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	1.6	4
77	$J/\psi$ production as a function of charged-particle multiplicity in p-Pb collisions at $\sqrt{s_{\text{NN}}} = 8.16$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	1.6	4
78	Measurement of electrons from heavy-flavour hadron decays as a function of multiplicity in p-Pb collisions at $\sqrt{s_{\text{NN}}} = 5.02$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	1.6	4
79	Non-linear flow modes of identified particles in Pb-Pb collisions at $\sqrt{s_{\text{NN}}} = 5.02$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	1.6	4
80	Centrality dependence of $J/\psi$ and $\Upsilon(2S)$ production and nuclear modification in p-Pb collisions at $\sqrt{s_{\text{NN}}} = 8.16$ TeV. Journal of High Energy Physics, 2021, 2021, 1.	1.6	4
81	Production of $\omega$ mesons in pp collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2020, 80, 1.	1.4	4
82	$\phi$ meson production at forward rapidity in Pb-Pb collisions at $\sqrt{s_{\text{NN}}} = 2.76$ TeV. European Physical Journal C, 2018, 78, 1.	1.4	3
83	Non-extensive statistics in free-electron metals and thermal effective mass. Physica A: Statistical Mechanics and Its Applications, 2019, 523, 852-857.	1.2	3
84	A Baseline Study of the Event-Shape and Multiplicity Dependence of Chemical Freeze-Out Parameters in Proton-Proton Collisions at $\sqrt{s} = 13$ TeV Using PYTHIA8. Physics, 2020, 2, 679-694.	0.5	2
85	The $q$ -statistics and QCD Thermodynamics at LHC. Acta Physica Polonica B, Proceedings Supplement, 2016, 9, 177.	0.0	2
86	Charged-particle multiplicity fluctuations in Pb-Pb collisions at $\sqrt{s_{\text{NN}}} = 2.76$ TeV. European Physical Journal C, 2021, 81, 1.	1.4	2
87	Latest results on the production of hadronic resonances in ALICE at the LHC. Nuclear Physics A, 2021, 1005, 121939.	0.6	1
88	Investigating heavy-flavor vs light-flavor puzzle with event topology and multiplicity in proton + proton collisions at $\sqrt{s} = 13$ TeV using PYTHIA8. Journal of Physics G: Nuclear and Particle Physics, 2021, 48, 095104.	1.4	1
89	Jet fragmentation transverse momentum distributions in pp and p-Pb collisions at $\sqrt{s} = 5.02$ TeV. Journal of High Energy Physics, 2021, 2021, 1.	1.6	1
90	$K_S^0$ and (anti- $\Lambda$ )-hadron correlations in pp collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2021, 81, 1.	1.4	1

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91	First measurements of N-subjettiness in central Pb-Pb collisions at $\sqrt{s_{\mathrm{NN}}} = 2.76$ TeV. Journal of High Energy Physics, 2021, 2021, 1.	1.6	1
92	Evolution of strange and multi-strange hadron production with relative transverse multiplicity activity in underlying event. European Physical Journal C, 2020, 80, 1.	1.4	1