

Jiangyong Jia

List of Publications by Year in descending order

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Version: 2024-02-01

138
papers

5,160
citations

136950

32
h-index

98798

67
g-index

144
all docs

144
docs citations

144
times ranked

6663
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Impact of event activity variable on the ratio observables in isobar collisions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2022, 833, 137312. | 4.1 | 9 |
| 20 | Measurement of hadronic event shapes in high-pT multijet final states at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1. | 4.7 | 4 |
| 21 | Search for squarks and gluinos in final states with jets and missing transverse momentum using 139 fb^{-1} of $\sqrt{s} = 13$ TeV pp collision data with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1. | 4.7 | 37 |
| 22 | Differential cross-section measurements for the electroweak production of dijets in association with a Z boson in proton-proton collisions at ATLAS. European Physical Journal C, 2021, 81, 1. | 3.9 | 12 |
| 23 | Measurements of WH and ZH production in the $H \rightarrow \bar{b}b$ decay channel in pp collisions at $\sqrt{s} = 13, 8, 7$ TeV with the ATLAS detector. European Physical Journal C, 2021, 81, 1. | 3.9 | 38 |
| 24 | Search for dark matter in association with an energetic photon in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1. | 4.7 | 18 |
| 25 | Search for type-III seesaw heavy leptons in dilepton final states in pp collisions at $\sqrt{s} = 13, 8, 7$ TeV with the ATLAS detector. European Physical Journal C, 2021, 81, 1. | 3.9 | 17 |
| 26 | Measurement of light-by-light scattering and search for axion-like particles with 2.2 nb^{-1} of Pb+Pb data with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1. | 4.7 | 19 |
| 27 | Search for Higgs boson production in association with a high-energy photon via vector-boson fusion with decay into bottom quark pairs at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1. | 4.7 | 6 |
| 28 | Search for new phenomena with top quark pairs in final states with one lepton, jets, and missing transverse momentum in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1. | 4.7 | 14 |
| 29 | Search for new phenomena in events with two opposite-charge leptons, jets and missing transverse momentum in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1. | 4.7 | 22 |
| 30 | Search for pair production of scalar leptoquarks decaying into first- or second-generation leptons and top quarks in proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. European Physical Journal C, 2021, 81, 1. | 3.9 | 18 |
| 31 | Optimisation of large-radius jet reconstruction for the ATLAS detector in 13 TeV proton-proton collisions. European Physical Journal C, 2021, 81, 1. | 3.9 | 15 |
| 32 | Search for heavy resonances decaying into a pair of Z bosons in the $e^+e^- \rightarrow e^+e^- Z Z$ and $e^+e^- \rightarrow e^+e^- Z \gamma$ final states using 139 fb^{-1} of proton-proton collisions at $\sqrt{s} = 13, 8, 7$ TeV with the ATLAS detector. European Physical Journal C, 2021, 81, 1. | 3.9 | 40 |
| 33 | Search for new phenomena in final states with b-jets and missing transverse momentum in $\sqrt{s} = 13$ TeV pp collisions with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1. | 4.7 | 18 |
| 34 | Search for a heavy Higgs boson decaying into a Z boson and another heavy Higgs boson in the $e^+e^- \rightarrow e^+e^- Z H$ and $e^+e^- \rightarrow e^+e^- H H$ final states in pp collisions at $\sqrt{s} = 13, 8, 7$ TeV with the ATLAS detector. European Physical Journal C, 2021, 81, 1. | 3.9 | 26 |
| 35 | Search for doubly and singly charged Higgs bosons decaying into vector bosons in multi-lepton final states with the ATLAS detector using proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2021, 2021, 1. | 4.7 | 23 |
| 36 | Measurements of $W+Z$ and $W+\gamma$ jet production cross-sections in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1. | 4.7 | 8 |

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|----|--|-----|-----------|
| 37 | Search for charged Higgs bosons decaying into a top quark and a bottom quark at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1. | 4.7 | 46 |
| 38 | Measurements of Higgs bosons decaying to bottom quarks from vector boson fusion production with the ATLAS experiment at $\sqrt{s}=13$ TeV. European Physical Journal C, 2021, 81, 1. | 3.9 | 14 |
| 39 | Search for pair production of third-generation scalar leptoquarks decaying into a top quark and a \bar{l}_τ -lepton in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1. | 4.7 | 27 |
| 40 | Azimuthal anisotropy measurements of strange and multistrange hadrons in $U+U$ collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review C, 2021, 103, . | 2.9 | 8 |
| 41 | Search for supersymmetry in events with four or more charged leptons in 139 fb^{-1} of $\sqrt{s} = 13$ TeV pp collisions with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1. | 4.7 | 12 |
| 42 | Determination of the parton distribution functions of the proton from ATLAS measurements of differential W_{\pm} and Z boson production in association with jets. Journal of High Energy Physics, 2021, 2021, 1. | 4.7 | 10 |
| 43 | Measurements of differential cross-sections in four-lepton events in 13 TeV proton-proton collisions with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1. | 4.7 | 8 |
| 44 | A search for the decays of stopped long-lived particles at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1. | 4.7 | 5 |
| 45 | Muon reconstruction and identification efficiency in ATLAS using the full Run 2 pp collision data set at $\sqrt{s}=13$ TeV. European Physical Journal C, 2021, 81, 1. | 3.9 | 82 |
| 46 | Search for squarks and gluinos in final states with one isolated lepton, jets, and missing transverse momentum at $\sqrt{s}=13$ TeV with the ATLAS detector. European Physical Journal C, 2021, 81, 1. | 3.9 | 13 |
| 47 | Measurement of single top-quark production in association with a W boson in the single-lepton channel at $\sqrt{s} = 8$ TeV with the ATLAS detector. European Physical Journal C, 2021, 81, 1. | 3.9 | 3 |
| 48 | Jet energy scale and resolution measured in proton-proton collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. European Physical Journal C, 2021, 81, 1. | 3.9 | 64 |
| 49 | Measurements of the inclusive and differential production cross sections of a top-quark-antiquark pair in association with a Z boson at $\sqrt{s} = 13$ TeV with the ATLAS detector. European Physical Journal C, 2021, 81, 1. | 3.9 | 12 |
| 50 | Search for dark matter produced in association with a single top quark in $\sqrt{s}=13$ TeV pp collisions with the ATLAS detector. European Physical Journal C, 2021, 81, 1. | 3.9 | 9 |
| 51 | Search for phenomena beyond the Standard Model in events with large b-jet multiplicity using the ATLAS detector at the LHC. European Physical Journal C, 2021, 81, 1. | 3.9 | 5 |
| 52 | Search for dark matter in events with missing transverse momentum and a Higgs boson decaying into two photons in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1. | 4.7 | 12 |
| 53 | Non-flow effects in correlation between harmonic flow and transverse momentum in nuclear collisions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2021, 822, 136702. | 4.1 | 10 |
| 54 | Accessing the shape of atomic nuclei with relativistic collisions of isobars. Physical Review C, 2021, 104, . | 2.9 | 18 |

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|----|--|-----|-----------|
| 55 | Search for R-parity-violating supersymmetry in a final state containing leptons and many jets with the ATLAS experiment using $\sqrt{s} = 13$ TeV proton-proton collision data. European Physical Journal C, 2021, 81, 1. | 3.9 | 7 |
| 56 | Measurement of the $t\bar{t}$ production cross section in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1. | 4.7 | 10 |
| 57 | Impact of Nuclear Deformation on Relativistic Heavy-Ion Collisions: Assessing Consistency in Nuclear Physics across Energy Scales. Physical Review Letters, 2021, 127, 242301. | 7.8 | 37 |
| 58 | Search for dark matter produced in association with a Standard Model Higgs boson decaying into b-quarks using the full Run 2 dataset from the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1. | 4.7 | 10 |
| 59 | Measurement of the production cross section of pairs of isolated photons in pp collisions at 13 TeV with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1. | 4.7 | 4 |
| 60 | Search for exotic decays of the Higgs boson into long-lived particles in pp collisions at $\sqrt{s} = 13$ TeV using displaced vertices in the ATLAS inner detector. Journal of High Energy Physics, 2021, 2021, 1. | 4.7 | 4 |
| 61 | Search for chargino-neutralino pair production in final states with three leptons and missing transverse momentum in $\sqrt{s} = 13$ TeV pp collisions with the ATLAS detector. European Physical Journal C, 2021, 81, 1. | 3.9 | 28 |
| 62 | Configuration and performance of the ATLAS b-jet triggers in Run 2. European Physical Journal C, 2021, 81, 1. | 3.9 | 7 |
| 63 | Measurement of b-quark fragmentation properties in jets using the decay $B \rightarrow J/\psi K^{\pm}$ in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1. | 4.7 | 3 |
| 64 | Search for new non-resonant phenomena in high-mass dilepton final states with the ATLAS detector. Journal of High Energy Physics, 2020, 2020, 1. | 4.7 | 24 |
| 65 | Measurements of the Higgs boson inclusive and differential fiducial cross sections in the $H \rightarrow b\bar{b}$ decay channel at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2020, 80, 1. | 3.9 | 32 |
| 66 | Search for direct production of electroweakinos in final states with one lepton, missing transverse momentum and a Higgs boson decaying into two b-jets in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. European Physical Journal C, 2020, 80, 1. | 3.9 | 34 |
| 67 | Medium-induced transverse momentum broadening via forward dijet correlations. Physical Review D, 2020, 101, . | 4.7 | 6 |
| 68 | Robustness of principal component analysis of harmonic flow in heavy ion collisions. Physical Review C, 2020, 102, . | 2.9 | 4 |
| 69 | Measurements of top-quark pair spin correlations in the $t\bar{t} \rightarrow \mu\mu$ channel at $\sqrt{s} = 13$ TeV using pp collisions in the ATLAS detector. European Physical Journal C, 2020, 80, 1. | 3.9 | 22 |
| 70 | Higgs boson production cross-section measurements and their EFT interpretation in the $H \rightarrow \tau\tau$ decay channel at $\sqrt{s} = 13$ TeV with the ATLAS detector. European Physical Journal C, 2020, 80, 1. | 3.9 | 41 |
| 71 | Search for pairs of scalar leptoquarks decaying into quarks and electrons or muons in $\sqrt{s} = 13$ TeV pp collisions with the ATLAS detector. Journal of High Energy Physics, 2020, 2020, 1. | 4.7 | 36 |
| 72 | Disentangling contributions to small-system collectivity via scans of light nucleus-nucleus collisions. Physical Review C, 2020, 101, . | 2.9 | 20 |

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|-----|---|-----|-----------|
| 91 | Beam energy dependence of rapidity-even dipolar flow in Au+Au collisions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 784, 26-32. | 4.1 | 7 |
| 92 | Azimuthal anisotropy in Cu+Au collisions at $\sqrt{s_{NN}} = 200$ GeV. Physical Review C, 2018, 98, . | 2.9 | 44 |
| 93 | Bulk properties of the medium produced in relativistic heavy-ion collisions from the beam energy scan program. Physical Review C, 2017, 96, . | 2.9 | 357 |
| 94 | Revealing long-range multiparticle collectivity in small collision systems via subevent cumulants. Physical Review C, 2017, 96, . | 2.9 | 64 |
| 95 | Measurements of jet quenching with semi-inclusive hadron+jet distributions in Au+Au collisions at $\sqrt{s_{NN}} = 200$ GeV. Physical Review C, 2017, 96, . | 2.9 | 44 |
| 96 | Observables for longitudinal flow correlations in heavy-ion collisions. Journal of Physics G: Nuclear and Particle Physics, 2017, 44, 075106. | 3.6 | 16 |
| 97 | Forward-backward multiplicity fluctuation and longitudinal harmonics in high-energy nuclear collisions. Physical Review C, 2016, 93, . | 2.9 | 26 |
| 98 | Centrality-Dependent Modification of Jet-Production Rates in Deuteron-Gold Collisions at $\sqrt{s_{NN}} = 200$ GeV. Physical Review Letters, 2016, 116, 122301. | 7.8 | 48 |
| 99 | Measurements of directed, elliptic, and triangular flow in Cu+Au collisions at $\sqrt{s_{NN}} = 200$ GeV. Physical Review C, 2016, 94, . | 2.9 | 24 |
| 100 | Limitation of multiparticle correlations for studying the event-by-event distribution of harmonic flow in heavy-ion collisions. Physical Review C, 2015, 92, . | 2.9 | 11 |
| 101 | Systematic study of azimuthal anisotropy in Cu+Cu and Au+Au collisions at $\sqrt{s_{NN}} = 62.4$ and 200 GeV. Physical Review C, 2015, 92, . | 2.9 | 19 |
| 102 | Measurements of Elliptic and Triangular Flow in High-Multiplicity He+He collisions at $\sqrt{s_{NN}} = 200$ GeV. Physical Review Letters, 2015, 114, 192301. | 7.8 | 140 |
| 103 | (Anti)Protons in Central Au+Au Collisions at $\sqrt{s_{NN}} = 200$ GeV. Physical Review Letters, 2015, 114, 192301. | 7.8 | 143 |
| 104 | Event-shape fluctuations and flow correlations in ultra-relativistic heavy-ion collisions. Journal of Physics G: Nuclear and Particle Physics, 2014, 41, 124003. | 3.6 | 50 |
| 105 | Elucidating the event-by-event flow fluctuations in heavy-ion collisions via the event-shape selection technique. Physical Review C, 2014, 90, . | 2.9 | 29 |
| 106 | Azimuthal-Angle Dependence of Charged-Pion-Interferometry Measurements with Respect to Second- and Third-Order Event Planes in Au+Au Collisions at $\sqrt{s_{NN}} = 200$ GeV. Physical Review Letters, 2014, 112, 222301. | 7.8 | 20 |
| 107 | Method for studying the rapidity fluctuation and de-correlation of harmonic flow in heavy-ion collisions. Physical Review C, 2014, 90, . | 2.9 | 26 |
| 108 | Cold-Nuclear-Matter Effects on Heavy-Quark Production at Forward and Backward Rapidity in Au+Au Collisions at $\sqrt{s_{NN}} = 200$ GeV. Physical Review Letters, 2014, 112, 252301. | 7.8 | 56 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 109 | Beam Energy Dependence of the Viscous Damping of Anisotropic Flow in Relativistic Heavy Ion Collisions. <i>Physical Review Letters</i> , 2014, 112, . | 7.8 | 28 |
| 110 | Forward-backward eccentricity and participant-plane angle fluctuations and their influences on longitudinal dynamics of collective flow. <i>Physical Review C</i> , 2014, 90, . Transverse energy distributions at midrapidity in <math>Pb-Pb</math> | 2.9 | 49 |
| 111 | Transverse energy distributions at midrapidity in <math>Pb-Pb</math> collisions. <i>Physical Review C</i>, 2014, 89, . | 2.9 | 67 |
| 112 | A method for studying initial geometry fluctuations via event plane correlations in heavy ion collisions. <i>European Physical Journal C</i> , 2013, 73, 1. | 3.9 | 25 |
| 113 | Study on initial geometry fluctuations via participant plane correlations in heavy ion collisions: part II. <i>European Physical Journal C</i> , 2013, 73, 1. Measurement of Event Plane Correlations in Pb-Pb Collisions at <math>\sqrt{s_{NN}}=2.76</math> TeV. <i>Physical Review C</i>, 2014, 89, . | 3.9 | 18 |
| 114 | Measurement of Event Plane Correlations in Pb-Pb Collisions at <math>\sqrt{s_{NN}}=2.76</math> TeV. <i>Physical Review C</i>, 2014, 89, . | 1.5 | 25 |
| 115 | Disentangling flow and nonflow correlations via Bayesian unfolding of the event-by-event distributions of harmonic coefficients in ultrarelativistic heavy-ion collisions. <i>Physical Review C</i> , 2014, 89, 1. Quadrupole Anisotropy in Dihadron Azimuthal Correlations in Central <math>Pb-Pb</math> Collisions at <math>\sqrt{s_{NN}}=2.76</math> TeV. <i>Physical Review C</i>, 2014, 89, . | 2.9 | 25 |
| 116 | Quadrupole Anisotropy in Dihadron Azimuthal Correlations in Central <math>Pb-Pb</math> Collisions at <math>\sqrt{s_{NN}}=2.76</math> TeV. <i>Physical Review C</i>, 2014, 89, . | 7.8 | 246 |
| 117 | Studies of the performance of the ATLAS detector using cosmic-ray muons. <i>European Physical Journal C</i> , 2011, 71, 1. | 3.9 | 17 |
| 118 | PHENIX study of dihadron correlation in Au+Au collision at $\sqrt{s_{NN}}=200$ GeV. <i>Physical Review Letters</i> , 2007, 98, 112301. | 1.8 | 0 |
| 119 | Measurements of Higher Order Flow Harmonics in $Pb-Pb$ Collisions at $\sqrt{s_{NN}}=2.76$ TeV. <i>Physical Review C</i> , 2014, 89, 1. | 1.8 | 0 |
| 120 | Performance of the ATLAS detector using first collision data. <i>Journal of High Energy Physics</i> , 2010, 2010, 1. | 7.8 | 249 |
| 121 | Glauber-based evaluations of the odd moments of the initial eccentricity relative to the even order participant planes. <i>Physical Review C</i> , 2011, 84, . | 2.9 | 12 |
| 122 | Initial eccentricity fluctuations and their relation to higher-order flow harmonics. <i>Physical Review C</i> , 2011, 83, . | 2.9 | 52 |
| 123 | Correlations between jet-quenching observables at energies available at the BNL Relativistic Heavy Ion Collider. <i>Physical Review C</i> , 2011, 84, . | 2.9 | 21 |
| 124 | The ATLAS Simulation Infrastructure. <i>European Physical Journal C</i> , 2010, 70, 823-874. | 3.9 | 1,187 |
| 125 | Performance of the ATLAS detector using first collision data. <i>Journal of High Energy Physics</i> , 2010, 2010, 1. | 4.7 | 18 |
| 126 | Direct photons in ATLAS@LHC. <i>Indian Journal of Physics</i> , 2010, 84, 1709-1713. | 1.8 | 0 |

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|-----|---|-----|-----------|
| 127 | Dissecting the role of initial collision geometry for jet quenching observables in relativistic heavy ion collisions. <i>Physical Review C</i> , 2010, 82, . | 2.9 | 33 |
| 128 | Constraints on models for the initial collision geometry in ultrarelativistic heavy ion collisions. <i>Physical Review C</i> , 2010, 81, . | 2.9 | 8 |
| 129 | Azimuthal anisotropy: Transition from hydrodynamic flow to jet suppression. <i>Physical Review C</i> , 2010, 82, . | 2.9 | 20 |
| 130 | Away-Side Asymmetry of Jet Correlation Relative to the Reaction Plane: A Sensitive Probe for Jet In-Medium Modifications. <i>Physical Review Letters</i> , 2009, 103, 022301. | 7.8 | 5 |
| 131 | Influence of quenched jets on di-hadron correlations. <i>Physical Review C</i> , 2009, 79, . | 2.9 | 5 |
| 132 | Influence of the nucleonâ€“nucleon collision geometry on the determination of the nuclear modification factor for nucleonâ€“nucleus and nucleusâ€“nucleus collisions. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2009, 681, 320-325. | 4.1 | 9 |
| 133 | How to make sense of the jet correlations results at RHIC?. <i>European Physical Journal C</i> , 2009, 62, 255-264. | 3.9 | 5 |
| 134 | Onset of R_{AA} Suppression Studied in Cu+Cu Collisions at $\sqrt{s_{NN}}=22.4, 62.4, \text{ and } 200 \text{ GeV}$. <i>Physical Review Letters</i> , 2008, 101, 162301. | 7.8 | 70 |
| 135 | R_{AA}^h CORRELATION IN Cu+Cu AT $\sqrt{s_{NN}} = 200 \text{ [m GeV]}$. <i>International Journal of Modern Physics E</i> , 2007, 16, 2000-2004. | 1.0 | 3 |
| 136 | Saturation of Azimuthal Anisotropy in Au+Au Collisions at $\sqrt{s_{NN}}=62\text{--}200 \text{ GeV}$. <i>Physical Review Letters</i> , 2005, 94, 232302. | 7.8 | 57 |
| 137 | Heavy ion collisions at collider energiesâ€“Insights from PHENIX. <i>Pramana - Journal of Physics</i> , 2003, 60, 639-650. | 1.8 | 3 |
| 138 | Transport reduction by current profile control in the reversedâ€“field pinch. <i>Physics of Plasmas</i> , 1995, 2, 2440-2446. | 1.9 | 22 |