Aishik Ghosh

List of Publications by Year in descending order

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279798 361022 1,682 81 23 35 citations h-index g-index papers 87 87 87 5020 docs citations times ranked citing authors all docs

| # | Article | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Performance of the ATLAS Level-1 topological trigger in RunÂ2. European Physical Journal C, 2022, 82, 1. | 3.9 | 6 |
| 2 | Measurement of the c-jet mistagging efficiency in $\frac{1}{s}$ events using pp collision data at $\frac{1}{s}=13$ fournal C, 2022, 82, . | 3.9 | 14 |
| 3 | A cautionary tale of decorrelating theory uncertainties. European Physical Journal C, 2022, 82, 1. | 3.9 | 9 |
| 4 | Search for exotic decays of the Higgs boson into b\$\$ overline $\{b\}$ \$\$ and missing transverse momentum in pp collisions at \$\$ sqrt $\{s\}$ \$\$ = 13 TeV with the ATLAS detector. Journal of High Energy Physics, 2022, 2022, 1. | 4.7 | 2 |
| 5 | Publishing unbinned differential cross section results. Journal of Instrumentation, 2022, 17, P01024. | 1.2 | 14 |
| 6 | Observation of electroweak production of two jets in association with an isolated photon and missing transverse momentum, and search for a Higgs boson decaying into invisible particles at 13Â\$\$ext {TeV}\$\$ with the ATLAS detector. European Physical Journal C, 2022, 82, 1. | 3.9 | 8 |
| 7 | Search for Higgs bosons decaying into new spin-0 or spin-1 particles in four-lepton final states with the ATLAS detector with 139 fba $^{\circ}$ 1 of pp collision data at \$\$ sqrt{s} \$\$ = 13 TeV. Journal of High Energy Physics, 2022, 2022, 1. | 4.7 | 10 |
| 8 | AtlFast3: The Next Generation of Fast Simulation in ATLAS. Computing and Software for Big Science, 2022, 6, 1. | 2.9 | 23 |
| 9 | Measurement of the energy response of the ATLASÂcalorimeter to chargedÂpions from \$\$W^{pm }ightarrow au ^{pm }(ightarrow pi ^{pm }u _{au })u _{au }\$\$ events in RunÂ2 data. European Physical Journal C, 2022, 82, 1. | 3.9 | 4 |
| 10 | The ATLAS inner detector trigger performance in pp collisions at 13ÂTeV during LHC Run 2. European Physical Journal C, 2022, 82, 1. | 3.9 | 5 |
| 11 | Search for flavour-changing neutral-current interactions of a top quark and a gluon in pp collisions at $s=13$ ATeV with the ATLAS detector. European Physical Journal C, 2022, 82, . | 3.9 | 7 |
| 12 | Measurement of the energy asymmetry in $t{ar{t}}j$ production at $13,$ TeV with the ATLAS experiment and interpretation in the SMEFT framework. European Physical Journal C, 2022, 82, . | 3.9 | 2 |
| 13 | Determination of the parton distribution functions of the proton using diverse ATLAS data from pp collisions at $\$\$$ sqrt $\{s\} = 7\$\$$, 8 and 13ÂTeV. European Physical Journal C, 2022, 82, 1. | 3.9 | 12 |
| 14 | 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 |
| 15 | Search for squarks and gluinos in final states with jets and missing transverse momentum using 139 fbâ^'1 of $\$$ sqrt{s} $\$$ = 13 TeV pp collision data with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1. | 4.7 | 37 |
| 16 | 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 |
| 17 | Measurements of WH and ZH production in the \$\$H ightarrow bar{b}\$\$ decay channel in pp collisions at \$\$13,ext {Te}ext $\{V\}$ \$\$ with the ATLAS detector. European Physical Journal C, 2021, 81, 1. | 3.9 | 38 |
| 18 | Search for dark matter in association with an energetic photon in pp collisions at $\$\$ $ sqrt $\$\$ = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1. | 4.7 | 18 |

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|----|--|-----|-----------|
| 19 | Search for type-III seesaw heavy leptons in dilepton final states in pp collisions at $\$$ sqrt $\{s\}$ = 13, $\{ext \{TeV\}\}$ \$\$ with the ATLAS detector. European Physical Journal C, 2021, 81, 1. | 3.9 | 17 |
| 20 | Measurement of light-by-light scattering and search for axion-like particles with 2.2 nbâ^1 of Pb+Pb data with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1. | 4.7 | 19 |
| 21 | 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 |
| 22 | 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 |
| 23 | Search for new phenomena in events with two opposite-charge leptons, jets and missing transverse momentum in pp collisions at $$$ sqrt{mathrm{s}} \$\$ = 13 TeV with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1. | 4.7 | 22 |
| 24 | Search for pair production of scalar leptoquarks decaying into first- or second-generation leptons and top quarks in proton $\hat{\epsilon}$ proton collisions at $\frac{1}{2}$ = 13 $\hat{\epsilon}$ with the ATLAS detector. European Physical Journal C, 2021, 81, 1. | 3.9 | 18 |
| 25 | Optimisation of large-radius jet reconstruction for the ATLAS detector in 13ÂTeV proton–proton collisions. European Physical Journal C, 2021, 81, 1. | 3.9 | 15 |
| 26 | Search for heavy resonances decaying into a pair of Z bosons in the $\$$ ell $^+$ ell $^-$ ell $^-$ ell $^-$ s and $\$$ ell $^+$ ell $^-$ u $\{ar\{u\}\}\}$ \$ final states using 139 $\$$ mathrm $\{fb\}^{-1}$ \$ of protonae"proton collisions at $\$$ sqrt $\{s\} = 13,\$$ TeV with the ATLAS detector. European Physical Journal C, 2021, 81, 1. | 3.9 | 40 |
| 27 | Search for new phenomena in final states with b-jets and missing transverse momentum in $\$\$$ sqrt{mathrm{s}} $\$\$ = 13$ TeV pp collisions with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1. | 4.7 | 18 |
| 28 | Search for a heavy Higgs boson decaying into a Z boson and another heavy Higgs boson in the $\$$ ell ell bb\$\$ and \$\$ell ell WW\$\$ final states in pp collisions at $\$\$qrt{s}=13\$\$\$\$vart{TeV}$$$ with the ATLAS detector. European Physical Journal C, 2021, 81, 1. | 3.9 | 26 |
| 29 | 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{mathrm{s}} \$\$ = 13 TeV. Journal of High Energy Physics, 2021, 2021, 1. | 4.7 | 23 |
| 30 | Measurements of W+W \hat{a} '+ \hat{a} % $\neq 1$ 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 |
| 31 | Search for charged Higgs bosons decaying into a top quark and a bottom quark at \$\$ sqrt{mathrm{s}} \$\$ = 13 TeV with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1. | 4.7 | 46 |
| 32 | Measurements of Higgs bosons decaying to bottom quarks from vector boson fusion production with the ATLAS experiment at $\$$ qrt $\{s\}=13$,ext $\{TeV\}$ \$. European Physical Journal C, 2021, 81, 1. | 3.9 | 14 |
| 33 | Search for pair production of third-generation scalar leptoquarks decaying into a top quark and a $\ddot{\text{l}}_{\text{n}}$ -lepton in pp collisions at \$\$ sqrt{s} \$\$ = 13 TeV with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1. | 4.7 | 27 |
| 34 | Search for supersymmetry in events with four or more charged leptons in 139 fb \hat{a} 1 of \$\$ sqrt{s} \$\$ = 13 TeV pp collisions with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1. | 4.7 | 12 |
| 35 | Determination of the parton distribution functions of the proton from ATLAS measurements of differential \hat{WA}_{\pm} and Z boson production in association with jets. Journal of High Energy Physics, 2021, 2021, 1. | 4.7 | 10 |
| 36 | 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 |

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|----|---|-----|-----------|
| 37 | A search for the decays of stopped long-lived particles at $\$$ sqrt{mathrm{s}} $\$$ = 13 TeV with the ATLAS detector. Journal of High Energy Physics, 2021, 1. | 4.7 | 5 |
| 38 | 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 |
| 39 | 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 |
| 40 | Measurement of single top-quark production in association with a W boson in the single-lepton channel at $\$$ sqrt $\{s\}$ = 8,ext $\{TeV\}$ \$\$ with the ATLAS detector. European Physical Journal C, 2021, 81, 1. | 3.9 | 3 |
| 41 | Jet energy scale and resolution measured in proton–proton collisions at \$\$sqrt{s}=13\$\$ÂTeV with the ATLAS detector. European Physical Journal C, 2021, 81, 1. | 3.9 | 64 |
| 42 | Measurements of the inclusive and differential production cross sections of a top-quark–antiquark pair in association with a ZÂboson at \$\$sqrt{s} = 13\$\$ÂTeV with the ATLAS detector. European Physical Journal C, 2021, 81, 1. | 3.9 | 12 |
| 43 | Uncertainty-aware machine learning for high energy physics. Physical Review D, 2021, 104, . | 4.7 | 24 |
| 44 | Search for dark matter produced in association with a single top quark in $\$\$qrt\{s\}=13\$\$ \hat{A} \text{TeV} \$pp\$\$$ collisions with the ATLAS detector. European Physical Journal C, 2021, 81, 1. | 3.9 | 9 |
| 45 | Measurements of top-quark pair single- and double-differential cross-sections in the all-hadronic channel in pp collisions at $\$$ sqrt{mathrm{s}} $\$$ = 13 TeV using the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1. | 4.7 | 14 |
| 46 | 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 |
| 47 | 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 |
| 48 | Search for R-parity-violating supersymmetry in a final state containing leptons and many jets with the ATLAS experiment using \$\$sqrt{s} = 13hbox { TeV}\$\$ protonâ€"proton collision data. European Physical Journal C, 2021, 81, 1. | 3.9 | 7 |
| 49 | Measurement of the t\$\$ overline{t} $$$ \$\$ overline{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 |
| 50 | 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 |
| 51 | 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 |
| 52 | 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 |
| 53 | Search for charginoâ \in neutralino pair production in final states with three leptons and missing transverse momentum in \$\$sqrt{s} = 13\$\$ÂTeV pp collisions with the ATLAS detector. European Physical Journal C, 2021, 81, 1. | 3.9 | 28 |
| 54 | Configuration and performance of the ATLAS b-jet triggers in Run 2. European Physical Journal C, 2021, 81, 1. | 3.9 | 7 |

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| 55 | Measurement of b-quark fragmentation properties in jets using the decay $B\hat{A}\pm\hat{a}\uparrow'J\hat{\Gamma}K\hat{A}\pm\hat{a}$ in pp collisions at \$\$ sqrt{s} \$\$ = 13 TeV with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1. | 4.7 | 3 |
| 56 | Performance of the missing transverse momentum triggers for the ATLAS detector during Run-2 data taking. Journal of High Energy Physics, 2020, 2020, 1. | 4.7 | 17 |
| 57 | 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 |
| 58 | Measurements of the Higgs boson inclusive and differential fiducial cross sections in the 4 \$ell \$\$ decay channel at $$\sqrt{s} = 13$ TeV. European Physical Journal C, 2020, 80, 1. | 3.9 | 32 |
| 59 | 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\$\$ÂTeV with the ATLAS detector. European Physical Journal C, 2020, 80, 1. | 3.9 | 34 |
| 60 | Measurements of the production cross-section for a Z boson in association with b-jets in proton-proton collisions at $\$$ sqrt $\{s\}$ $\$$ = 13 TeV with the ATLAS detector. Journal of High Energy Physics, 2020, 2020, 1. | 4.7 | 11 |
| 61 | Search for the HH \hat{a}^{*} \$\$ boverline{b}boverline{b}\$\$ process via vector-boson fusion production using proton-proton collisions at \$\$ sqrt{s} \$\$ = 13 TeV with the ATLAS detector. Journal of High Energy Physics, 2020, 2020, 1. | 4.7 | 17 |
| 62 | Observation of the associated production of a top quark and a Z boson in pp collisions at \$\$ sqrt{s} \$\$= 13 TeV with the ATLAS detector. Journal of High Energy Physics, 2020, 2020, 1. | 4.7 | 12 |
| 63 | Higgs boson production cross-section measurements and their EFT interpretation in the \$\$4ell \$\$ decay channel at \$\$sqrt{s}=\$\$13ÂTeV with the ATLAS detector. European Physical Journal C, 2020, 80, 1. | 3.9 | 41 |
| 64 | 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 |
| 65 | Search for squarks and gluinos in final states with same-sign leptons and jets using 139 fbâ^1 of data collected with the ATLAS detector. Journal of High Energy Physics, 2020, 2020, 1. | 4.7 | 19 |
| 66 | Search for $\$\$$ toverline{t} $\$\$$ resonances in fully hadronic final states in pp collisions at $\$\$$ sqrt{s} $\$\$$ = 13 TeV with the ATLAS detector. Journal of High Energy Physics, 2020, 2020, 1. | 4.7 | 14 |
| 67 | Reconstruction and identification of boosted di-Ï,, systems in a search for Higgs boson pairs using 13 TeV proton-proton collision data in ATLAS. Journal of High Energy Physics, 2020, 2020, 1. | 4.7 | 8 |
| 68 | Performance of electron and photon triggers in ATLAS during LHC Run 2. European Physical Journal C, 2020, $80,1.$ | 3.9 | 93 |
| 69 | Search for top squarks in events with a Higgs or Z boson using $139 \text{ Afb} $ of pp collision data at \$\$ sqrt{s}=13\$\$ ATeV with the ATLAS detector. European Physical Journal C, 2020, 80, 1. | 3.9 | 4 |
| 70 | Evidence for \$\$tar{t}tar{t}\$\$ production in the multilepton final state in protonâ€"proton collisions at \$\$sqrt{s}=13\$\$Â\$\$ext {TeV}\$\$ with the ATLAS detector. European Physical Journal C, 2020, 80, 1. | 3.9 | 30 |
| 71 | Search for heavy diboson resonances in semileptonic final states in pp collisions at \$\$\$qrt{s}=13\$\$ÂTeV with the ATLAS detector. European Physical Journal C, 2020, 80, 1. | 3.9 | 29 |
| 72 | Search for a scalar partner of the top quark in the all-hadronic $f(x)$ plus missing transverse momentum final state at $f(x)$ with the ATLAS detector. European Physical Journal C, 2020, 80, 1. | 3.9 | 36 |

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|----|--|-----|----------|
| 73 | Alignment of the ATLAS Inner Detector in Run 2. European Physical Journal C, 2020, 80, 1. | 3.9 | 12 |
| 74 | Constraints on mediator-based dark matter and scalar dark energy models using $\$\$ $ sqrt $\{\$\}$ $\$\$ = 13$ TeV pp collision data collected by the ATLAS detector. Journal of High Energy Physics, 2019, 2019, 1. | 4.7 | 49 |
| 75 | Measurement of the cross-section and charge asymmetry of W bosons produced in proton–proton collisions at \$\$sqrt{s}=8~ext {TeV}\$\$ with the ATLAS detector. European Physical Journal C, 2019, 79, 1. | 3.9 | 24 |
| 76 | Measurement of VH, \$\$ mathrm{H}o mathrm{b}overline{mathrm{b}} \$\$ production as a function of the vector-boson transverse momentum in 13 TeV pp collisions with the ATLAS detector. Journal of High Energy Physics, 2019, 2019, 1. | 4.7 | 14 |
| 77 | Measurement of the ratio of cross sections for inclusive isolated-photon production in pp collisions at $\$$ sqrt $\{s\}$ $\$$ = 13 and 8 TeV with the ATLAS detector. Journal of High Energy Physics, 2019, 2019, 1. | 4.7 | 6 |
| 78 | Measurement of fiducial and differential $\$W^+W^-$, production cross-sections at $\$\$qrt{s}=13\$$ ATeV with the ATLAS detector. European Physical Journal C, 2019, 79, 1. | 3.9 | 24 |
| 79 | Measurement of the inclusive cross-section for the production of jets in association with a Z boson in proton–proton collisions at 8ÂTeV using the ATLAS detector. European Physical Journal C, 2019, 79, 1. | 3.9 | 9 |
| 80 | ATLAS b-jet identification performance and efficiency measurement with $f(x) = 13$ events in pp collisions at $f(x) = 13$ for European Physical Journal C, 2019, 79, 1. | 3.9 | 130 |
| 81 | Measurements of top-quark pair differential and double-differential cross-sections in the $\$$ ell $\$$ +jets channel with pp collisions at $\$$ sqrt $\{s\}$ =13 $\$$ TeV using the ATLAS detector. European Physical Journal C, 2019, 79, 1. | 3.9 | 34 |