# Maurice Garcia-Sciveres

List of Publications by Year
in descending order

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|---|---|---|---|
| 209 papers | 4,482 citations | 134730 32 h-index | 166348 53 g-index |
| 218 all docs | 218 docs citations | 218 times ranked | 10161 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | A detailed map of Higgs boson interactions by the ATLAS experiment ten years after the discovery. Nature, 2022, 607, 52-59. | 34.3 | 267 |
| 2 | The FE-I4 pixel readout integrated circuit. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 636, S155-S159. | 1.3 | 229 |
| 3 | 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, . | 4.2 | 158 |
| 4 | Jet energy scale and resolution measured in protonâ€"proton collisions at $$sqrt{s}=13$$ÂTeV with the ATLAS detector. European Physical Journal C, 2021, 81, . | 4.2 | 141 |
| 5 | Luminosity determination in pp collisions at $$sqrt{s}=13$$ÂTeV using the ATLAS detector at the LHC. European Physical Journal C, 2023, 83, . | 4.2 | 87 |
| 6 | A review of advances in pixel detectors for experiments with high rate and radiation. Reports on Progress in Physics, 2018, 81, 066101. | 20.0 | 82 |
| 7 | Readout technologies for directional WIMP Dark Matter detection. Physics Reports, 2016, 662, 1-46. | 28.8 | 74 |
| 8 | 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, . | 4.7 | 72 |
| 9 | ATLAS flavour-tagging algorithms for the LHC Run 2 pp collision dataset. European Physical Journal C, 2023, 83, . | 4.2 | 67 |
| 10 | Search for charginoâ€"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, . | 4.2 | 66 |
| 11 | Search for squarks and gluinos in final states with jets and missing transverse momentum using 139 fbâˆ'1 of $$ sqrt{s} $$ = 13 TeV pp collision data with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, . | 4.7 | 65 |
| 12 | 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, . | 4.2 | 65 |
| 13 | AtlFast3: The Next Generation of Fast Simulation in ATLAS. Computing and Software for Big Science, 2022, 6, . | 3.6 | 64 |
| 14 | Search for heavy resonances decaying into a pair of Z bosons in the $$ell ^+ell ^-ell '^+ell '^-$$ and $$ell ^+ell ^-u {{ar{u }}}$$ final states using 139 $$mathrm {fb}^{-1}$$ of protonâ€"proton collisions at $$sqrt{s} = 13,$$TeV with the ATLAS detector. European Physical Journal C, 2021, 81, . | 4.2 | 61 |
| 15 | Observation of an Excess of Dicharmonium Events in the Four-Muon Final State with the ATLAS Detector. Physical Review Letters, 2023, 131, . | 7.8 | 61 |
| 16 | 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, . | 4.2 | 60 |
| 17 | Search for a scalar partner of the top quark in the all-hadronic $$t{ar{t}}$$ plus missing transverse momentum final state at $$sqrt{s}=13$$ÂTeV with the ATLAS detector. European Physical Journal C, 2020, 80, . | 4.2 | 54 |
| 18 | High-voltage pixel detectors in commercial CMOS technologies for ATLAS, CLIC and Mu3e experiments. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2013, 731, 131-136. | 1.3 | 52 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | 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, . | 4.2 | 49 |
| 20 | Combination of searches for invisible decays of the Higgs boson using 139 fbâˆ’1 of proton-proton collision data at <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.svg"><mml:msqrt><mml:mrow><mml:mi>s</mml:mi></mml:mrow></mml:msqrt><mml:mo linebreak="goodbreak" linebreakstyle="after">=</mml:mo><mml:mn>13</mml:mn></mml:math> TeV collected with the ATLAS experiment. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2023, 842, 137963. | 4.0 | 48 |
| 21 | 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, . | 4.7 | 45 |
| 22 | Measurement of the c-jet mistagging efficiency in $$tar{t}$$Âevents using pp collision data at $$sqrt{s}=13$$Â$$ext {TeV}$$ collected with the ATLAS detector. European Physical Journal C, 2022, 82, . | 4.2 | 44 |
| 23 | Search for heavy diboson resonances in semileptonic final states in pp collisions at $$sqrt{s}=13$$ÂTeV with the ATLAS detector. European Physical Journal C, 2020, 80, . | 4.2 | 43 |
| 24 | 3D active edge silicon sensors with different electrode configurations: Radiation hardness and noise performance. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2009, 604, 505-511. | 1.3 | 42 |
| 25 | 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, . | 4.2 | 41 |
| 26 | The SVX3D integrated circuit for dead-timeless silicon strip readout. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1999, 435, 58-64. | 1.3 | 40 |
| 27 | 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, . | 4.2 | 39 |
| 28 | Measurement of light-by-light scattering and search for axion-like particles with 2.2 nbâˆ’1 of Pb+Pb data with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, . | 4.7 | 39 |
| 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, . | 4.7 | 37 |
| 30 | Measurements of top-quark pair spin correlations in the $$emu $$ channel at $$sqrt{s} = 13$$ TeV using pp collisions in the ATLAS detector. European Physical Journal C, 2020, 80, . | 4.2 | 35 |
| 31 | 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 $$sqrt{s}=13$$Â$$ext {TeV}$$ with the ATLAS detector. European Physical Journal C, 2021, 81, . | 4.2 | 35 |
| 32 | Search for long-lived charginos based on a disappearing-track signature using 136 fb$$^{-1}$$ of pp collisions at $$sqrt{s}$$Â=Â13ÂTeV with the ATLAS detector. European Physical Journal C, 2022, 82, . | 4.2 | 34 |
| 33 | Search for pair production of third-generation scalar leptoquarks decaying into a top quark and a Ï„-lepton in pp collisions at $$ sqrt{s} $$ = 13 TeV with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, . | 4.7 | 33 |
| 34 | 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, . | 4.2 | 32 |
| 35 | Calibration of the light-flavour jet mistagging efficiency of the b-tagging algorithms with Z+jets events using 139Â$$extrm{fb}^{-1}$$ of ATLAS protonâ€“proton collision data at $$sqrt{s} = 13$$ÂTeV. European Physical Journal C, 2023, 83, . | 4.2 | 31 |
| 36 | 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, . | 4.7 | 30 |

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|---|---|---|---|
| 37 | Constraints on the Higgs boson self-coupling from single- and double-Higgs production with the ATLAS detector using pp collisions at <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.svg"><mml:msqrt><mml:mrow><mml:mi>s</mml:mi></mml:mrow></mml:msqrt><mml:mo linebreak="goodbreak" linebreakstyle="after">=</mml:mo><mml:mn>13</mml:mn></mml:math> TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2023, 843, 137745. | 4.0 | 30 |
| 38 | Correlations between flow and transverse momentum in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>Xe</mml:mi><mml:mo>+</mml:mo><mml:mi>Xe</mml:m and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>Pb</mml:mi><mml:mo>+</mml:mo><mml:mi>Pb</mml:m | 2.9 | 30 |
| 39 | Test of the universality of ï„ and Î¼ lepton couplings in W-boson decays with the ATLAS detector. Nature Physics, 2021, 17, 813-818. | 15.0 | 29 |
| 40 | 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, . | 4.7 | 28 |
| 41 | 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, . | 4.7 | 27 |
| 42 | 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, . | 4.7 | 27 |
| 43 | Measurements of Higgs bosons decaying to bottom quarks from vector boson fusion production with the ATLAS experiment at $$sqrt{s}=13,ext {TeV}$$. European Physical Journal C, 2021, 81, . | 4.2 | 27 |
| 44 | Observation of four-top-quark production in the multilepton final state with the ATLAS detector. European Physical Journal C, 2023, 83, . | 4.2 | 27 |
| 45 | Search for new non-resonant phenomena in high-mass dilepton final states with the ATLAS detector. Journal of High Energy Physics, 2020, 2020, . | 4.7 | 26 |
| 46 | Optimisation of large-radius jet reconstruction for the ATLAS detector in 13ÂTeV protonâ€“proton collisions. European Physical Journal C, 2021, 81, . | 4.2 | 26 |
| 47 | Measurement of the total cross section and $$ho $$-parameter from elastic scattering in pp collisions at $$sqrt{s}=13$$ÂTeV with the ATLAS detector. European Physical Journal C, 2023, 83, . | 4.2 | 26 |
| 48 | Search for doubly charged Higgs boson production in multi-lepton final states using 139Âfb$$^{-1}$$ of protonâ€“proton collisions at $$sqrt{s}$$ = 13ÂTeV with the ATLAS detector. European Physical Journal C, 2023, 83, . | 4.2 | 26 |
| 49 | Search for Heavy Neutral Leptons in Decays of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>W</mml:mi></mml:math> Bosons Using a Dilepton Displaced Vertex in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" <mml:mo>=</mml:mo><mml:mn>13</mml:mn><mml:mtext>â€‰ | 7.8 | 26 |
| 50 | Search for nonresonant pair production of Higgs bosons in the final state in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>b</mml:mi><mml:mover accent="true"><mml:mi>b</mml:mi><mml:mo stretchy="false">Â¯</mml:mo></mml:mover><mml:mi>b</mml:mi><mml:mover accent="true"><mml:mi>b</mml:mi><mml:mo stretchy="false">Â¯</mml:mo></mml:mover></mml:math> | 4.4 | 26 |
| 51 | Operational experience, improvements, and performance of the CDF Run II silicon vertex detector. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2013, 729, 153-181. | 1.3 | 25 |
| 52 | Measurement of the CP-violating phase $$phi _s$$ in $$ B_{s}^{0} ightarrow J/psi phi $$ decays in ATLAS at 13ÂTeV. European Physical Journal C, 2021, 81, . | 4.2 | 25 |
| 53 | Direct constraint on the Higgsâ€“charm coupling from a search for Higgs boson decays into charm quarks with the ATLAS detector. European Physical Journal C, 2022, 82, . | 4.2 | 25 |
| 54 | Search for pair-production of vector-like quarks in pp collision events at <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.svg"><mml:msqrt><mml:mrow><mml:mi>s</mml:mi></mml:mrow></mml:msqrt><mml:mo linebreak="goodbreak" linebreakstyle="after">=</mml:mo><mml:mn>13</mml:mn></mml:math> TeV with at least one leptonically decaying Z boson and a third-generation quark with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2023, 843, 138019. | 4.0 | 25 |

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|---|---|---|---|
| 55 | 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, . | 4.2 | 24 |
| 56 | Search for supersymmetry in events with four or more charged leptons in 139 fbâˆ’1 of $$ sqrt{s} $$ = 13 TeV pp collisions with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, . | 4.7 | 24 |
| 57 | 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, . | 4.7 | 24 |
| 58 | The ATLAS inner detector trigger performance in pp collisions at 13ÂTeV during LHC Run 2. European Physical Journal C, 2022, 82, . | 4.2 | 24 |
| 59 | Searches for new phenomena in events with two leptons, jets, and missing transverse momentum in 139Âfb$$^{-1}$$ of $$varvec{sqrt{s}}=13$$ÂTeV $$varvec{pp}$$ collisions with the ATLAS detector. European Physical Journal C, 2023, 83, . | 4.2 | 24 |
| 60 | Studies of the muon momentum calibration and performance of the ATLAS detector with pp collisions at $$sqrt{s}=13$$ÂTeV. European Physical Journal C, 2023, 83, . | 4.2 | 24 |
| 61 | Anomaly detection search for new resonances decaying into a Higgs boson and a generic new particle <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>X</mml:mi></mml:math> in hadronic final states using <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" | 4.4 | 24 |
| 62 | Observation of the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>Î³</mml:mi><mml:mi>Î³</mml:mi><mml:mo stretchy="false">â†’</mml:mo><mml:mi>Ï„</mml:mi><mml:mi>Ï„</mml:mi></mml:mrow></mml:math> Process in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" | 7.8 | 24 |
| 63 | Wipeout failures induced by resonant vibrations in the CDF silicon detector. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2004, 518, 277-280. | 1.3 | 23 |
| 64 | Search for pair production of scalar leptoquarks decaying into first- or second-generation leptons and top quarks in protonâ€“proton collisions at $$sqrt{s}$$ = 13ÂTeV with the ATLAS detector. European Physical Journal C, 2021, 81, . | 4.2 | 23 |
| 65 | The SVX4 integrated circuit. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2003, 511, 171-173. | 1.3 | 22 |
| 66 | 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, . | 4.7 | 22 |
| 67 | Alignment of the ATLAS Inner Detector in Run 2. European Physical Journal C, 2020, 80, . | 4.2 | 22 |
| 68 | Large active-area superconducting microwire detector array with single-photon sensitivity in the near-infrared. Applied Physics Letters, 2023, 122, . | 3.2 | 21 |
| 69 | Measurement of substructure-dependent jet suppression in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>Pb</mml:mi><mml:mo>+</mml:mo><mml:mi>Pb</mml:mi> collisions at 5.02 TeV with the ATLAS detector. Physical Review C, 2023, 107, . | 2.9 | 21 |
| 70 | Combined Measurement of the Higgs Boson Mass from the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>H</mml:mi><mml:mo stretchy="false">â†’</mml:mo><mml:mi>Î³</mml:mi><mml:mi>Î³</mml:mi></mml:mrow></mml:math> and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi | 7.8 | 21 |
| 71 | The FE-I4 pixel readout system-on-chip resubmission for the insertable B-Layer project. Journal of Instrumentation, 2012, 7, C02050-C02050. | 1.2 | 20 |
| 72 | 3-D tracking in a miniature time projection chamber. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2015, 788, 95-105. | 1.3 | 20 |

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|---|---|---|---|
| 73 | Recent progress of RD53 Collaboration towards next generation Pixel Read-Out Chip for HL-LHC. Journal of Instrumentation, 2016, 11, C12058-C12058. | 1.2 | 20 |
| 74 | Measurements of the inclusive and differential production cross sections of a top-quarkâ€“antiquark pair in association with a ZÂboson at $$sqrt{s} = 13$$ÂTeV with the ATLAS detector. European Physical Journal C, 2021, 81, . | 4.2 | 20 |
| 75 | Submission of the first full scale prototype chip for upgraded ATLAS pixel detector at LHC, FE-I4A. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 650, 111-114. | 1.3 | 19 |
| 76 | Differential cross-section measurements for the electroweak production of dijets in association with a Z boson in protonâ€“proton collisions at ATLAS. European Physical Journal C, 2021, 81, . | 4.2 | 19 |
| 77 | 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, . | 4.2 | 19 |
| 78 | 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, . | 4.7 | 19 |
| 79 | Evidence of off-shell Higgs boson production from ZZ leptonic decay channels and constraints on its total width with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2023, 846, 138223. | 4.0 | 19 |
| 80 | 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, . | 4.2 | 18 |
| 81 | Search for supersymmetry in final states with missing transverse momentum and three or more b-jets in 139 fb$$^{-1}$$ of protonâ€“proton collisions at $$sqrt{s} = 13$$ÂTeV with the ATLAS detector. European Physical Journal C, 2023, 83, . | 4.2 | 18 |
| 82 | Search for pair-produced vector-like top and bottom partners in events with large missing transverse momentum in pp collisions with the ATLAS detector. European Physical Journal C, 2023, 83, . | 4.2 | 18 |
| 83 | High-voltage pixel sensors for ATLAS upgrade. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2014, 765, 172-176. | 1.3 | 17 |
| 84 | Search for charged-lepton-flavour violation in Z-boson decays with the ATLAS detector. Nature Physics, 2021, 17, 819-825. | 15.0 | 17 |
| 85 | 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, . | 4.7 | 17 |
| 86 | Measurement of the t$$ overline{t} $$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, . | 4.7 | 17 |
| 87 | 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, . | 4.2 | 16 |
| 88 | A new ATLAS pixel front-end IC for upgraded LHC luminosity. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2009, 604, 397-399. | 1.3 | 15 |
| 89 | Measurements of W+Wâˆ'+ â‰¥ 1 jet production cross-sections in pp collisions at $$ sqrt{s} $$ = 13 TeV with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, . | 4.7 | 15 |
| 90 | Determination of the parton distribution functions of the proton from ATLAS measurements of differential WÂ± and Z boson production in association with jets. Journal of High Energy Physics, 2021, 2021, . | 4.7 | 15 |

| # | Article | IF | Citations |
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| 91 | Performance of the ATLAS Level-1 topological trigger in RunÂ2. European Physical Journal C, 2022, 82, . | 4.2 | 15 |
| 92 | Search for Higgs bosons decaying into new spin-0 or spin-1 particles in four-lepton final states with the ATLAS detector with 139 fbâ^'1 of pp collision data at $$ sqrt{s} $$ = 13 TeV. Journal of High Energy Physics, 2022, 2022, . | 4.7 | 15 |
| 93 | Measurement of Suppression of Large-Radius Jets and Its Dependence on Substructure in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>Pb</mml:mi><mml:mo>+</mml:mo><mml:mi>Pb</mml:mi></mml:mrow></mml:math> Collisions at <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msqrt><mml:msub><mml:mrow><mml:mi>s</mml:mi></mml:mrow><mml:mrow><mm | 7.8 | 15 |
| 94 | Search for heavy Majorana or Dirac neutrinos and right-handed W gauge bosons in final states with charged leptons and jets in pp collisions at $$sqrt{s}=13$$ÂTeV with the ATLAS detector. European Physical Journal C, 2023, 83, . | 4.2 | 15 |
| 95 | Configuration and performance of the ATLAS b-jet triggers in Run 2. European Physical Journal C, 2021, 81, . | 4.2 | 14 |
| 96 | Search for type-III seesaw heavy leptons in leptonic final states in pp collisions at $$sqrt{s} = 13~ext {TeV}$$ with the ATLAS detector. European Physical Journal C, 2022, 82, . | 4.2 | 14 |
| 97 | Digital architecture of the new ATLAS pixel chip FE-I4. , 2009, , 791-796. | | 13 |
| 98 | Digital Architecture and Interface of the New ATLAS Pixel Front-End IC for Upgraded LHC Luminosity. IEEE Transactions on Nuclear Science, 2009, 56, 388-393. | 1.9 | 13 |
| 99 | Search for flavour-changing neutral-current interactions of a top quark and a gluon in pp collisions at $$sqrt{s}=13$$ÂTeV with the ATLAS detector. European Physical Journal C, 2022, 82, . | 4.2 | 13 |
| 100 | Search for flavour-changing neutral-current couplings between the top quark and the photon with the ATLAS detector at <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.svg"><mml:msqrt><mml:mrow><mml:mi>s</mml:mi></mml:mrow></mml:msqrt><mml:mo linebreak="goodbreak" linebreakstyle="after">=</mml:mo><mml:mn>13</mml:mn></mml:math> TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2023, 842, 137379. | 4.0 | 13 |
| 101 | <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi mathvariant="normal">Î¥</mml:mi><mml:mo>(</mml:mo><mml:mi>n</mml:mi><mml:mi>S</mml:mi><mml:mo>)</mml:mo></mml:mo></mml:m mesons in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>Pb</mml:mi><mml:mo>+</mml:mo><mml:mi>Pb</mml:m | 2.9 | 13 |
| 102 | A Capacitor Charge Pump DC-DC Converter for Physics Instrumentation. IEEE Transactions on Nuclear Science, 2009, 56, 1507-1510. | 1.9 | 12 |
| 103 | Towards third generation pixel readout chips. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2013, 731, 83-87. | 1.3 | 12 |
| 104 | Search for dark matter produced in association with a single top quark in $$sqrt{s}=13$$ÂTeV $$pp$$ collisions with the ATLAS detector. European Physical Journal C, 2021, 81, . | 4.2 | 12 |
| 105 | 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, . | 4.7 | 12 |
| 106 | Emulating the impact of additional protonâ€"proton interactions in the ATLAS simulation by presampling sets of inelastic Monte Carlo events. Computing and Software for Big Science, 2022, 6, . | 3.6 | 12 |
| 107 | Constraints on Higgs boson properties using $$WW^{*}(ightarrow eu mu u )jj$$ production in $$36.1,mathrm{fb}^{-1}$$ of $$sqrt{s}=13$$ÂTeV pp collisions with the ATLAS detector. European Physical Journal C, 2022, 82, . | 4.2 | 12 |
| 108 | Measurement of the Higgs boson mass in the Hâ€"â†'â€"ZZâŽâ€"â†'â€"4â„“ decay channel using 139 fbâ^'1 of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.svg"><mml:msqrt><mml:mrow><mml:mi>s</mml:mi></mml:mrow></mml:msqrt><mml:mo linebreak="goodbreak" linebreakstyle="after">=</mml:mo><mml:mn>13</mml:mn></mml:math> TeV pp collisions recorded by the ATLAS detector at the LHC. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2023, 843, 137880. | 4.0 | 12 |

| # | Article | IF | Citations |
|---|---|---|---|
| 109 | Search for Majorana neutrinos in same-sign WW scattering events from pp collisions at $$sqrt{s}=13$$ÂTeV. European Physical Journal C, 2023, 83, . | 4.2 | 12 |
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