RESEARCH & PUBLICATIONS

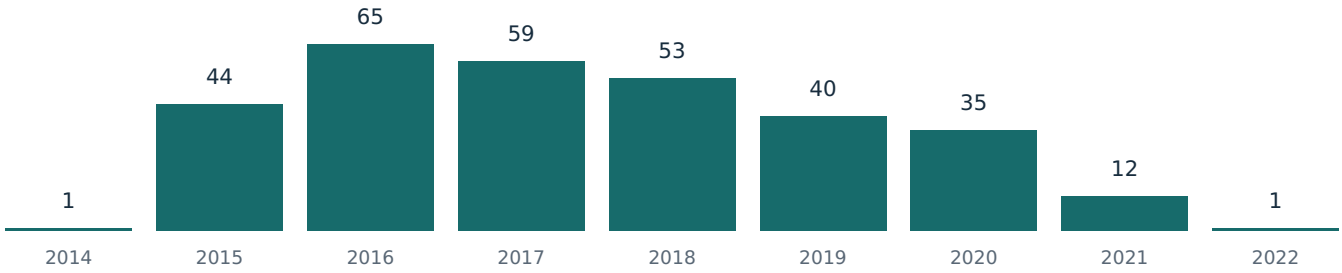
David A. DeMarco

A publication record at a glance

310	20,859	79
ARTICLES	CITATIONS	h-INDEX

PUBLICATION ACTIVITY

Articles by publication year



MOST CITED IN THIS LIST

Performance of the ATLAS Trigger System in 2015 — 763
2017 European Physical Journal C

Muon Reconstruction Performance of the ATLAS Detector in Proton–Proton Collision Data at √s s =13 TeV — 558
2016 European Physical Journal C

Performance of Pile-Up Mitigation Techniques for Jets in Pp Collisions at √s=8 TeV Using the ATLAS Detector — 485
2016 European Physical Journal C

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2022

01 Two-Particle Bose–Einstein Correlations in Pp Collisions at √s = 13 TeV Measured With the ATLAS Detector at the LHC — 8 citations
European Physical Journal C · 82, 1-38
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2021

02 Measurement of Hadronic Event Shapes in High-pT Multijet Final States at √s = 13 TeV With the ATLAS Detector — 10 citations
Journal of High Energy Physics · 2021, 1-44
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03 Differential Cross-Section Measurements for the Electroweak Production of Dijets in Association With a Z Boson in Proton–Proton Collisions at ATLAS — 47 citations
European Physical Journal C · 81, 1-42
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04 Measurements of WH and ZH Production in the H → Bb̄ Decay Channel in Pp Collisions at 13TeV With the ATLAS Detector — 128 citations
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05 Search for Dark Matter in Association With an Energetic Photon in Pp Collisions at √s = 13 TeV With the ATLAS Detector — 34 citations
Journal of High Energy Physics · 2021, 1-46
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06 Search for Type-III Seesaw Heavy Leptons in Dilepton Final States in Pp Collisions at √s = 13TeV With the ATLAS Detector — 35 citations
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07 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 — 53 citations
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08 Search for New Phenomena With Top Quark Pairs in Final States With One Lepton, Jets, and Missing Transverse Momentum in Pp Collisions at √s = 13 TeV With the ATLAS Detector — 31 citations
Journal of High Energy Physics · 2021, 1-66
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09 **Measurement of the CP-Violating Phase φ_s in $B_s^0 \rightarrow J/\psi\varphi$ Decays in ATLAS at 13 TeV** — 35 citations
European Physical Journal C · 81, 1-36
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10 **Measurement of Single Top-Quark Production in Association With a W Boson in the Single-Lepton Channel at √s = 8TeV With the ATLAS Detector** — 22 citations
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11 **Jet Energy Scale and Resolution Measured in Proton–Proton Collisions at √s=13 TeV With the ATLAS Detector** — 311 citations
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12 **Measurements of Top-Quark Pair Single- and Double-Differential Cross-Sections in the All-Hadronic Channel in Pp Collisions at √s = 13 TeV Using the ATLAS Detector** — 32 citations
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13 **Search for Phenomena Beyond the Standard Model in Events With Large b-Jet Multiplicity Using the ATLAS Detector at the LHC** — 10 citations
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14 **Measurements of Inclusive and Differential Cross-Sections of Combined $t\bar{t}\gamma$ and $tW\gamma$ Production in the $e\mu$ Channel at 13 TeV With the ATLAS Detector** — 7 citations
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15 **Performance of the Missing Transverse Momentum Triggers for the ATLAS Detector During Run-2 Data Taking** — 31 citations
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16 **Search for New Non-Resonant Phenomena in High-Mass Dilepton Final States With the ATLAS Detector** — 27 citations
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17 **Measurements of the Higgs Boson Inclusive and Differential Fiducial Cross Sections in the 4ℓ Decay Channel at √s = 13 TeV** — 85 citations
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18 Fluctuations of Anisotropic Flow in Pb+Pb Collisions at √((s)_(NN)) = 5.02 TeV With the ATLAS Detector
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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 √s=13 TeV With the ATLAS Detector
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20 Measurement of Differential Cross Sections for Single Diffractive Dissociation in √s = 8 TeV Pp Collisions Using the ATLAS ALFA Spectrometer
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23 Search for the HH → Bb̄bb̄ Process via Vector-Boson Fusion Production Using Proton-Proton Collisions at √s = 13 TeV With the ATLAS Detector
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26 Search for Direct Production of Electroweakinos in Final States With Missing Transverse Momentum and a Higgs Boson Decaying Into Photons in Pp Collisions at √s = 13 TeV With the ATLAS Detector
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27 Measurements of Top-Quark Pair Spin Correlations in the Eμ Channel at √s = 13 TeV Using Pp Collisions in the ATLAS Detector
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28 Search for New Phenomena in Final States With Large Jet Multiplicities and Missing Transverse Momentum Using √s = 13 TeV Proton-Proton Collisions Recorded by ATLAS in Run 2 of the LHC
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29 Higgs Boson Production Cross-Section Measurements and Their EFT Interpretation in the 4ℓ Decay Channel at √s= 13 TeV With the ATLAS Detector
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30 Search for Pairs of Scalar Leptoquarks Decaying Into Quarks and Electrons or Muons in √s = 13 TeV Pp Collisions With the ATLAS Detector
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31 Search for Squarks and Gluinos in Final States With Same-Sign Leptons and Jets Using 139 Fb−1 of Data Collected With the ATLAS Detector
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32 Search for Dijet Resonances in Events With an Isolated Charged Lepton Using √s = 13 TeV Proton-Proton Collision Data Collected by the ATLAS Detector
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33 Measurement of the Z(→ ℓ+ℓ−)γ Production Cross-Section in Pp Collisions at √s = 13 TeV With the ATLAS Detector
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36 Measurement of J/ψ Production in Association With a W± Boson With Pp Data at 8 TeV
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37 Search for New Resonances in Mass Distributions of Jet Pairs Using 139 Fb−1 of Pp Collisions at √s = 13 TeV With the ATLAS Detector
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38 Search for $T\bar{t}$ Resonances in Fully Hadronic Final States in Pp Collisions at √s = 13 TeV With the ATLAS Detector
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39 Reconstruction and Identification of Boosted Di-τ Systems in a Search for Higgs Boson Pairs Using 13 TeV Proton-Proton Collision Data in ATLAS
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40 Performance of Electron and Photon Triggers in ATLAS During LHC Run 2
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41 Search for Electroweak Production of Charginos and Sleptons Decaying Into Final States With Two Leptons and Missing Transverse Momentum in √s=13 TeV Pp Collisions Using the ATLAS Detector
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45 Search for Light Long-Lived Neutral Particles Produced in Pp Collisions at $\sqrt{s}$ = 13~TeV and Decaying Into Collimated Leptons or Light Hadrons With the ATLAS Detector — 47 citations
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47 Alignment of the ATLAS Inner Detector in Run 2 — 32 citations
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48 Determination of Jet Calibration and Energy Resolution in Proton–Proton Collisions at $\sqrt{s}$ = 8~\hbox TeV Using the ATLAS Detector — 33 citations
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50 Search for Long-Lived Neutral Particles in Pp Collisions at $\sqrt{s}$ = 13~ TeV That Decay Into Displaced Hadronic Jets in the ATLAS Calorimeter — 66 citations
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51 Search for Higgs Boson Pair Production in the WW(*)WW(*) Decay Channel Using ATLAS Data Recorded at √s = 13 TeV
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52 Search for Large Missing Transverse Momentum in Association With One Top-Quark in Proton-Proton Collisions at √s = 13 TeV With the ATLAS Detector
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55 Search for Scalar Resonances Decaying Into μ+μ− in Events With and Without b-Tagged Jets Produced in Proton-Proton Collisions at √s=13 TeV With the ATLAS Detector
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57 Search for Excited Electrons Singly Produced in Proton–Proton Collisions at √s ~=~13~TeV With the ATLAS Experiment at the LHC
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61 Electron Reconstruction and Identification in the ATLAS Experiment Using the 2015 and 2016 LHC Proton–Proton Collision Data at √s = 13 TeV
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63 Search for Single Production of Vector-Like Quarks Decaying Into Wb in Pp Collisions at s √s = 13 TeV With the ATLAS Detector
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52 citations
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240 Search for Squarks and Gluinos in Events With Hadronically Decaying Tau Leptons, Jets and Missing Transverse Momentum in Proton–Proton Collisions at √s=13 s = 13 TeV Recorded With the ATLAS Detector — 13 citations

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279 **Search for New Phenomena in Events With Three or More Charged Leptons in Pp Collisions at s = 8 √s=8 TeV With the ATLAS Detector** 23 citations

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84 citations

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80 citations

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99 citations

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19 citations

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242 citations

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242 citations

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309 ATLAS Run 1 Searches for Direct Pair Production of Third-Generation Squarks at the Large Hadron Collider — 143 citations

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310 Search for Neutral Higgs Bosons of the Minimal Supersymmetric Standard Model in Pp Collisions at s=8 √s=8 TeV With the ATLAS Detector — 84 citations

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