

Adam Bailey

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

312 papers	6,589 citations	31 h-index	70 g-index
335 ext. papers	9,104 ext. citations	4.7 avg, IF	3.89 L-index

#	Paper	IF	Citations
312	First results from the LUX dark matter experiment at the Sanford underground research facility. <i>Physical Review Letters</i> , 2014 , 112, 091303	7.4	1165
311	Results from a Search for Dark Matter in the Complete LUX Exposure. <i>Physical Review Letters</i> , 2017 , 118, 021303	7.4	840
310	Improved Limits on Scattering of Weakly Interacting Massive Particles from Reanalysis of 2013 LUX Data. <i>Physical Review Letters</i> , 2016 , 116, 161301	7.4	277
309	Combined measurements of Higgs boson production and decay using up to 80 fb ⁻¹ of proton-proton collision data at s=13 TeV collected with the ATLAS experiment. <i>Physical Review D</i> , 2020 , 101,	4.9	121
308	Observation of Higgs boson production in association with a top quark pair at the LHC with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2018 , 784, 173-191	4.2	118
307	Limits on Spin-Dependent WIMP-Nucleon Cross Section Obtained from the Complete LUX Exposure. <i>Physical Review Letters</i> , 2017 , 118, 251302	7.4	114
306	Results on the Spin-Dependent Scattering of Weakly Interacting Massive Particles on Nucleons from the Run 3 Data of the LUX Experiment. <i>Physical Review Letters</i> , 2016 , 116, 161302	7.4	107
305	Observation of H \rightarrow bb $\bar{\bar{b}}$ decays and VH production with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2018 , 786, 59-86	4.2	87
304	Search for high-mass dilepton resonances using 139 fb ⁻¹ of pp collision data collected at s=13 TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2019 , 796, 68-87	4.2	82
303	Search for additional heavy neutral Higgs and gauge bosons in the ditau final state produced in 36 fb ⁻¹ of pp collisions at (sqrt{s}=13) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	81
302	First Searches for Axions and Axionlike Particles with the LUX Experiment. <i>Physical Review Letters</i> , 2017 , 118, 261301	7.4	76
301	Projected WIMP sensitivity of the LUX-ZEPLIN dark matter experiment. <i>Physical Review D</i> , 2020 , 101,	4.9	68
300	Radiogenic and muon-induced backgrounds in the LUX dark matter detector. <i>Astroparticle Physics</i> , 2015 , 62, 33-46	2.4	59
299	Tritium calibration of the LUX dark matter experiment. <i>Physical Review D</i> , 2016 , 93,	4.9	59
298	The LUX-ZEPLIN (LZ) experiment. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2020 , 953, 163047	1.2	57
297	Electron and photon performance measurements with the ATLAS detector using the 2015-2017 LHC proton-proton collision data. <i>Journal of Instrumentation</i> , 2019 , 14, P12006-P12006	1	51
296	Search for electroweak production of charginos and sleptons decaying into final states with two leptons and missing transverse momentum in (sqrt{s}=13) (text {TeV}) pp collisions using the ATLAS detector. <i>European Physical Journal C</i> , 2020 , 80, 1	4.2	50

295	Combination of the Searches for Pair-Produced Vectorlike Partners of the Third-Generation Quarks at $\sqrt{s}=13$ TeV with the ATLAS Detector. <i>Physical Review Letters</i> , 2018 , 121, 211801	7.4	48
294	Combination of Searches for Invisible Higgs Boson Decays with the ATLAS Experiment. <i>Physical Review Letters</i> , 2019 , 122, 231801	7.4	45
293	Measurement of the nuclear modification factor for inclusive jets in Pb+Pb collisions at $\sqrt{s_{NN}}=5.02$ TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2019 , 790, 108-128	4.2	44
292	ATLAS b-jet identification performance and efficiency measurement with ($t\bar{t}$) events in pp collisions at ($\sqrt{s}=13$) TeV. <i>European Physical Journal C</i> , 2019 , 79, 1	4.2	43
291	Observation of Light-by-Light Scattering in Ultraperipheral Pb+Pb Collisions with the ATLAS Detector. <i>Physical Review Letters</i> , 2019 , 123, 052001	7.4	41
290	Measurement of the Higgs boson mass in the $H\rightarrow ZZ\rightarrow 4\ell$ and $H\rightarrow \tau\tau$ channels with $\sqrt{s}=13$ TeV pp collisions using the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2018 , 784, 345-366	4.2	41
289	Search for charged Higgs bosons decaying into top and bottom quarks at ($\sqrt{s}=13$) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	39
288	Electron reconstruction and identification in the ATLAS experiment using the 2015 and 2016 LHC proton-proton collision data at ($\sqrt{s}=13$) (TeV). <i>European Physical Journal C</i> , 2019 , 79, 1	4.2	37
287	Search for heavy charged long-lived particles in the ATLAS detector in 36.1 fb of proton-proton collision data at $\sqrt{s}=13$ TeV. <i>Physical Review D</i> , 2019 , 99,	4.9	35
286	Search for chargino-neutralino production using recursive jigsaw reconstruction in final states with two or three charged leptons in proton-proton collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. <i>Physical Review D</i> , 2018 , 98,	4.9	34
285	Search for heavy particles decaying into top-quark pairs using lepton-plus-jets events in proton-proton collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2018 , 78, 565	4.2	34
284	Search for a heavy Higgs boson decaying into a Z boson and another heavy Higgs boson in the $B\bar{B}$ final state in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2018 , 783, 392-414	4.2	33
283	Signal yields, energy resolution, and recombination fluctuations in liquid xenon. <i>Physical Review D</i> , 2017 , 95,	4.9	33
282	Search for charged Higgs bosons decaying via $H\rightarrow \tau\tau$ in the τ jets and τ lepton final states with 36 fb of pp collision data recorded at ($\sqrt{s}=13$) TeV with the ATLAS experiment. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	33
281	Search for pair production of Higgs bosons in the ($\bar{b}b$) final state using proton-proton collisions at ($\sqrt{s}=13$) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1	5.4	31
280	Constraints on mediator-based dark matter and scalar dark energy models using ($\sqrt{s}=13$) TeV pp collision data collected by the ATLAS detector. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1	5.4	31
279	Searches for electroweak production of supersymmetric particles with compressed mass spectra in $\sqrt{s}=13$ TeV pp collisions with the ATLAS detector. <i>Physical Review D</i> , 2020 , 101,	4.9	31
278	Measurements of b-jet tagging efficiency with the ATLAS detector using ($t\bar{t}$) events at ($\sqrt{s}=13$) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	31

277	Performance of electron and photon triggers in ATLAS during LHC Run 2. <i>European Physical Journal C</i> , 2020 , 80, 1	4.2	30
276	Search for Heavy Higgs Bosons Decaying into Two Tau Leptons with the ATLAS Detector Using pp Collisions at $\sqrt{s}=13$ TeV. <i>Physical Review Letters</i> , 2020 , 125, 051801	7.4	30
275	Cross-section measurements of the Higgs boson decaying into a pair of leptons in proton-proton collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. <i>Physical Review D</i> , 2019 , 99,	4.9	29
274	Search for Low-Mass Dijet Resonances Using Trigger-Level Jets with the ATLAS Detector in pp Collisions at $\sqrt{s}=13$ TeV. <i>Physical Review Letters</i> , 2018 , 121, 081801	7.4	29
273	Constraints on off-shell Higgs boson production and the Higgs boson total width in $ZZ \rightarrow 4\ell$ and $ZZ \rightarrow 2\ell 2\nu$ final states with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2018 , 786, 223-244	4.2	28
272	Measurements of gluon-gluon fusion and vector-boson fusion Higgs boson production cross-sections in the $H \rightarrow WW^* \rightarrow \ell\ell\nu\bar{\nu}$ decay channel in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2019 , 789, 508-529	4.2	27
271	Search for annual and diurnal rate modulations in the LUX experiment. <i>Physical Review D</i> , 2018 , 98,	4.9	27
270	Observation of Electroweak Production of a Same-Sign W Boson Pair in Association with Two Jets in pp Collisions at $\sqrt{s}=13$ TeV with the ATLAS Detector. <i>Physical Review Letters</i> , 2019 , 123, 161801	7.4	26
269	Measurement of the photon identification efficiencies with the ATLAS detector using LHC Run 2 data collected in 2015 and 2016. <i>European Physical Journal C</i> , 2019 , 79, 1	4.2	26
268	Ultralow energy calibration of LUX detector using Xe127 electron capture. <i>Physical Review D</i> , 2017 , 96,	4.9	26
267	Study of the rare decays of B_s^0 and B^0 mesons into muon pairs using data collected during 2015 and 2016 with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2019 , 2019,	5.4	25
266	Electron and photon energy calibration with the ATLAS detector using 2015-2016 LHC proton-proton collision data. <i>Journal of Instrumentation</i> , 2019 , 14, P03017-P03017	1	25
265	Search for long-lived particles produced in pp collisions at $\sqrt{s}=13$ TeV that decay into displaced hadronic jets in the ATLAS muon spectrometer. <i>Physical Review D</i> , 2019 , 99,	4.9	24
264	Measurement of the top quark mass in the $(t\bar{t} \rightarrow \ell\bar{\ell} + \text{jets})$ channel from $(\sqrt{s}=8)$ TeV ATLAS data and combination with previous results. <i>European Physical Journal C</i> , 2019 , 79, 1	4.2	24
263	Calibration, event reconstruction, data analysis, and limit calculation for the LUX dark matter experiment. <i>Physical Review D</i> , 2018 , 97,	4.9	24
262	Combination of searches for Higgs boson pairs in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2020 , 800, 135103	4.2	24
261	Search for pair production of up-type vector-like quarks and for four-top-quark events in final states with multiple b-jets with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	23
260	Search for Resonant and Nonresonant Higgs Boson Pair Production in the $b\bar{b} \rightarrow H^* H^* \rightarrow 4\ell$ Decay Channel in pp Collisions at $\sqrt{s}=13$ TeV with the ATLAS Detector. <i>Physical Review Letters</i> , 2018 , 121, 191801	7.4	23

259	Search for Higgs boson pair production in the ($\gamma\gamma$) final state with 13 TeV pp collision data collected by the ATLAS experiment. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	23
258	Combination of searches for heavy resonances decaying into bosonic and leptonic final states using 36 fb ⁻¹ of proton-proton collision data at $\sqrt{s}=13$ TeV with the ATLAS detector. <i>Physical Review D</i> , 2018 , 98,	4.9	23
257	Prompt and non-prompt and suppression at high transverse momentum in Pb+Pb collisions with the ATLAS experiment. <i>European Physical Journal C</i> , 2018 , 78, 762	4.2	23
256	Observation of electroweak $W\Xi Z$ boson pair production in association with two jets in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2019 , 793, 469-492	4.2	22
255	Search for pair and single production of vectorlike quarks in final states with at least one Z boson decaying into a pair of electrons or muons in pp collision data collected with the ATLAS detector at $\sqrt{s}=13$ TeV. <i>Physical Review D</i> , 2018 , 98,	4.9	22
254	Search for invisible Higgs boson decays in vector boson fusion at $\sqrt{s}=13$ TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2019 , 793, 499-519	4.2	21
253	Search for heavy Majorana or Dirac neutrinos and right-handed W gauge bosons in final states with two charged leptons and two jets at ($\sqrt{s}=13$) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1	5.4	21
252	Search for heavy neutral leptons in decays of W bosons produced in 13 TeV pp collisions using prompt and displaced signatures with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1	5.4	21
251	A search for the dimuon decay of the Standard Model Higgs boson with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2021 , 812, 135980	4.2	21
250	Search for Higgs boson pair production in the channel using collision data recorded at TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2018 , 78, 1007	4.2	21
249	Search for new phenomena in events with same-charge leptons and b-jets in pp collisions at ($\sqrt{s}=13$) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	21
248	Measurement of the azimuthal anisotropy of charged particles produced in $\sqrt{s}=5.02$ TeV Pb+Pb collisions with the ATLAS detector. <i>European Physical Journal C</i> , 2018 , 78, 997	4.2	21
247	Position reconstruction in LUX. <i>Journal of Instrumentation</i> , 2018 , 13, P02001-P02001	1	21
246	Search for doubly charged scalar bosons decaying into same-sign boson pairs with the ATLAS detector. <i>European Physical Journal C</i> , 2019 , 79, 58	4.2	20
245	Measurement of ($W^{\pm}Z$) production cross sections and gauge boson polarisation in pp collisions at ($\sqrt{s} = 13$ TeV) with the ATLAS detector. <i>European Physical Journal C</i> , 2019 , 79, 1	4.2	20
244	Kr83m calibration of the 2013 LUX dark matter search. <i>Physical Review D</i> , 2017 , 96,	4.9	20
243	Search for new resonances in mass distributions of jet pairs using 139 fb ⁻¹ of pp collisions at ($\sqrt{s} = 13$ TeV) with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1	5.4	20
242	Search for Higgs boson decays into a pair of light bosons in the $b\bar{b}$ final state in pp collision at $\sqrt{s}=13$ TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2019 , 790, 1-21	4.2	20

241	Identification of radiopure titanium for the LZ dark matter experiment and future rare event searches. <i>Astroparticle Physics</i> , 2017 , 96, 1-10	2.4	19
240	Performance of top-quark and (varvec{W})-boson tagging with ATLAS in Run 2 of the LHC. <i>European Physical Journal C</i> , 2019 , 79, 1	4.2	19
239	Operation of the ATLAS trigger system in Run 2. <i>Journal of Instrumentation</i> , 2020 , 15, P10004-P10004	1	19
238	Search for pair production of heavy vectorlike quarks decaying into hadronic final states in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. <i>Physical Review D</i> , 2018 , 98,	4.9	19
237	Search for long-lived neutral particles in pp collisions at ($\sqrt{s}=13$ ~{TeV}) that decay into displaced hadronic jets in the ATLAS calorimeter. <i>European Physical Journal C</i> , 2019 , 79, 1	4.2	18
236	Searches for third-generation scalar leptoquarks in ($\sqrt{s}=13$ TeV pp collisions with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1	5.4	18
235	Observation of Centrality-Dependent Acoplanarity for Muon Pairs Produced via Two-Photon Scattering in Pb+Pb Collisions at $\sqrt{s_{\mathrm{NN}}}=5.02$ TeV with the ATLAS Detector. <i>Physical Review Letters</i> , 2018 , 121, 212301	7.4	18
234	Search for chargino-neutralino production with mass splittings near the electroweak scale in three-lepton final states in $\sqrt{s}=13$ TeV pp collisions with the ATLAS detector. <i>Physical Review D</i> , 2020 , 101,	4.9	17
233	Search for a scalar partner of the top quark in the all-hadronic ($t\bar{t}$) plus missing transverse momentum final state at ($\sqrt{s}=13$) TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2020 , 80, 1	4.2	17
232	Search for heavy charged long-lived particles in proton-proton collisions at $\sqrt{s}=13$ TeV using an ionisation measurement with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2019 , 788, 96-116	4.2	17
231	In situ calibration of large-radius jet energy and mass in 13 TeV proton-proton collisions with the ATLAS detector. <i>European Physical Journal C</i> , 2019 , 79, 1	4.2	16
230	ATLAS data quality operations and performance for 2015-2018 data-taking. <i>Journal of Instrumentation</i> , 2020 , 15, P04003-P04003	1	16
229	Measurement of fiducial and differential (W^+W^-) production cross-sections at ($\sqrt{s}=13$) TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2019 , 79, 1	4.2	16
228	Measurement of flow harmonics correlations with mean transverse momentum in lead-lead and proton-lead collisions at ($\sqrt{s_{\mathrm{NN}}}=5.02$ ~{TeV}) with the ATLAS detector. <i>European Physical Journal C</i> , 2019 , 79, 1	4.2	16
227	Search for pair production of heavy vector-like quarks decaying into high- p_T W bosons and top quarks in the lepton-plus-jets final state in pp collisions at ($\sqrt{s}=13$) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	16
226	Searches for scalar leptoquarks and differential cross-section measurements in dilepton-dijet events in proton-proton collisions at a centre-of-mass energy of ($\sqrt{s}=13$ TeV with the ATLAS experiment. <i>European Physical Journal C</i> , 2019 , 79, 1	4.2	15
225	Search for Magnetic Monopoles and Stable High-Electric-Charge Objects in 13 TeV Proton-Proton Collisions with the ATLAS Detector. <i>Physical Review Letters</i> , 2020 , 124, 031802	7.4	15
224	Search for $W^\pm \rightarrow b\bar{b}$ decays in the hadronic final state using pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2018 , 781, 327-348	4.2	15

223	3D modeling of electric fields in the LUX detector. <i>Journal of Instrumentation</i> , 2017 , 12, P11022-P11022	1	15
222	Dijet Resonance Search with Weak Supervision Using $\sqrt{s}=13$ TeV pp Collisions in the ATLAS Detector. <i>Physical Review Letters</i> , 2020 , 125, 131801	7.4	15
221	CP Properties of Higgs Boson Interactions with Top Quarks in the $t\bar{t}\rightarrow H$ and tH Processes Using $H\rightarrow b\bar{b}$ with the ATLAS Detector. <i>Physical Review Letters</i> , 2020 , 125, 061802	7.4	15
220	Measurement of photon-jet transverse momentum correlations in 5.02 TeV Pb + Pb and pp collisions with ATLAS. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2019 , 789, 167-190	4.2	15
219	Search for dark matter in events with a hadronically decaying vector boson and missing transverse momentum in pp collisions at $(\sqrt{s}=13)$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	15
218	Search for new phenomena using the invariant mass distribution of same-flavour opposite-sign dilepton pairs in events with missing transverse momentum in $\sqrt{s}=13$ TeV collisions with the ATLAS detector. <i>European Physical Journal C</i> , 2018 , 78, 625	4.2	15
217	Correlated long-range mixed-harmonic fluctuations measured in pp, p+Pb and low-multiplicity Pb+Pb collisions with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2019 , 789, 444-471	4.2	14
216	Search for single production of vector-like quarks decaying into Wb in pp collisions at $(\sqrt{s}) = 13$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1	5.4	14
215	. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1	5.4	14
214	Measurement of the $t\bar{t}\rightarrow Z$ and $t\bar{t}\rightarrow W$ cross sections in proton-proton collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. <i>Physical Review D</i> , 2019 , 99,	4.9	14
213	Search for a right-handed gauge boson decaying into a high-momentum heavy neutrino and a charged lepton in pp collisions with the ATLAS detector at $\sqrt{s}=13$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2019 , 798, 134942	4.2	14
212	Search for the Higgs boson produced in association with a vector boson and decaying into two spin-zero particles in the $H\rightarrow aa\rightarrow 4b$ channel in pp collisions at $(\sqrt{s}=13)$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	14
211	Search for resonant WZ production in the fully leptonic final state in proton-proton collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2018 , 787, 68-88	4.2	14
210	Combined measurement of differential and total cross sections in the $H\rightarrow ZZ\rightarrow 4\ell$ and the $H\rightarrow ZZ\rightarrow 2\ell 2\gamma$ decay channels at $\sqrt{s}=13$ TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2018 , 786, 114-133	4.2	14
209	Searches for exclusive Higgs and Z boson decays into $J/\psi(2S)\ell\bar{\ell}$ and $\psi(nS)\ell\bar{\ell}$ at $\sqrt{s}=13$ TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2018 , 786, 134-155	4.2	14
208	Search for Higgs bosons produced via vector-boson fusion and decaying into bottom quark pairs in $\sqrt{s}=13$ TeV pp collisions with the ATLAS detector. <i>Physical Review D</i> , 2018 , 98,	4.9	14
207	Search for long-lived particles in final states with displaced dimuon vertices in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. <i>Physical Review D</i> , 2019 , 99,	4.9	13
206	Search for top-quark decays $t\rightarrow Hq$ with 36 fb $^{-1}$ of pp collision data at $(\sqrt{s}) = 13$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1	5.4	13

205	Study and mitigation of spurious electron emission from cathodic wires in noble liquid time projection chambers. <i>Astroparticle Physics</i> , 2018 , 103, 49-61	2.4	13
204	Searches for lepton-flavour-violating decays of the Higgs boson in $\sqrt{s}=13$ TeV pp collisions with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2020 , 800, 135069	4.2	13
203	Fluctuations of anisotropic flow in Pb+Pb collisions at $(\sqrt{\langle s \rangle_{\mathrm{NN}}}) = 5.02$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1	5.4	13
202	Performance of the ATLAS muon triggers in Run 2. <i>Journal of Instrumentation</i> , 2020 , 15, P09015-P09015	1	13
201	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. <i>European Physical Journal C</i> , 2020 , 80, 1	4.2	13
200	Search for direct stau production in events with two hadronic leptons in $\sqrt{s}=13$ TeV pp collisions with the ATLAS detector. <i>Physical Review D</i> , 2020 , 101,	4.9	13
199	Muon reconstruction and identification efficiency in ATLAS using the full Run 2 pp collision data set at $(\sqrt{s}=13)$ TeV. <i>European Physical Journal C</i> , 2021 , 81, 1	4.2	13
198	Measurements of top-quark pair differential and double-differential cross-sections in the $(\ell\ell)+\text{jets}$ channel with pp collisions at $(\sqrt{s}=13)$ TeV using the ATLAS detector. <i>European Physical Journal C</i> , 2019 , 79, 1	4.2	13
197	Operation and performance of the ATLAS Tile Calorimeter in Run 1. <i>European Physical Journal C</i> , 2018 , 78, 987	4.2	13
196	Measurements of W and Z boson production in pp collisions at $(\sqrt{s}=5.02)$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2019 , 79, 1	4.2	12
195	Higgs boson production cross-section measurements and their EFT interpretation in the $(4\ell\ell)$ decay channel at $(\sqrt{s}=13)$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2020 , 80, 1	4.2	12
194	Search for long-lived, massive particles in events with a displaced vertex and a muon with large impact parameter in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. <i>Physical Review D</i> , 2020 , 102,	4.9	12
193	Comparison of Fragmentation Functions for Jets Dominated by Light Quarks and Gluons from pp and Pb+Pb Collisions in ATLAS. <i>Physical Review Letters</i> , 2019 , 123, 042001	7.4	12
192	Search for heavy particles decaying into a top-quark pair in the fully hadronic final state in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. <i>Physical Review D</i> , 2019 , 99,	4.9	12
191	Search for Higgs boson pair production in the $WW^{(*)}WW^{(*)}$ decay channel using ATLAS data recorded at $(\sqrt{s}) = 13$ TeV. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1	5.4	12
190	Search for low-mass resonances decaying into two jets and produced in association with a photon using pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2019 , 795, 56-75	4.2	12
189	Measurement of the azimuthal anisotropy of charged-particle production in Xe+Xe collisions at $\sqrt{s_{\mathrm{NN}}}=5.44$ TeV with the ATLAS detector. <i>Physical Review C</i> , 2020 , 101,	2.7	12
188	Measurement of the top-quark mass in $(\overline{t}t) + 1\text{-jet}$ events collected with the ATLAS detector in pp collisions at $(\sqrt{s}) = 8$ TeV. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1	5.4	12

187	Search for a heavy charged boson in events with a charged lepton and missing transverse momentum from pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. <i>Physical Review D</i> , 2019 , 100,	4.9	12
186	Search for flavor-changing neutral currents in top quark decays $t \rightarrow Hc$ and $t \rightarrow Hu$ in multilepton final states in proton-proton collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. <i>Physical Review D</i> , 2018 , 98,	4.9	12
185	Measurement of jet fragmentation in Pb+Pb and pp collisions at $\sqrt{s_{NN}}=5.02$ TeV with the ATLAS detector. <i>Physical Review C</i> , 2018 , 98,	2.7	12
184	Measurement of the cross-section and charge asymmetry of W bosons produced in proton-proton collisions at $(\sqrt{s}=8\text{--}13\text{ TeV})$ with the ATLAS detector. <i>European Physical Journal C</i> , 2019 , 79, 1	4.2	11
183	Chromatographic separation of radioactive noble gases from xenon. <i>Astroparticle Physics</i> , 2018 , 97, 80-87.	4.4	11
182	Liquid xenon scintillation measurements and pulse shape discrimination in the LUX dark matter detector. <i>Physical Review D</i> , 2018 , 97,	4.9	11
181	Identification of boosted Higgs bosons decaying into b-quark pairs with the ATLAS detector at $\sqrt{s}=13\text{ TeV}$. <i>European Physical Journal C</i> , 2019 , 79,	4.2	11
180	Search for long-lived neutral particles produced in pp collisions at $\sqrt{s}=13$ TeV decaying into displaced hadronic jets in the ATLAS inner detector and muon spectrometer. <i>Physical Review D</i> , 2020 , 101,	4.9	11
179	Measurement of soft-drop jet observables in pp collisions with the ATLAS detector at $\sqrt{s}=13$ TeV. <i>Physical Review D</i> , 2020 , 101,	4.9	11
178	Jet energy scale and resolution measured in proton-proton collisions at $(\sqrt{s}=13)$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2021 , 81, 1	4.2	11
177	. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1	5.4	10
176	Search for heavy neutral Higgs bosons produced in association with b-quarks and decaying into b-quarks at $\sqrt{s}=13$ TeV with the ATLAS detector. <i>Physical Review D</i> , 2020 , 102,	4.9	10
175	Search for chargino and neutralino production in final states with a Higgs boson and missing transverse momentum at $\sqrt{s}=13$ TeV with the ATLAS detector. <i>Physical Review D</i> , 2019 , 100,	4.9	10
174	Search for diboson resonances in hadronic final states in 139 fb $^{-1}$ of pp collisions at $(\sqrt{s})=13$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1	5.4	10
173	Search for displaced vertices of oppositely charged leptons from decays of long-lived particles in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2020 , 801, 135114	4.2	10
172	Search for new phenomena in events with an energetic jet and missing transverse momentum in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. <i>Physical Review D</i> , 2021 , 103,	4.9	10
171	Measurement of the suppression and azimuthal anisotropy of muons from heavy-flavor decays in Pb+Pb collisions at $\sqrt{s_{NN}}=2.76$ TeV with the ATLAS detector. <i>Physical Review C</i> , 2018 , 98,	2.7	10
170	Search for resonances in the mass distribution of jet pairs with one or two jets identified as b-jets in proton-proton collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. <i>Physical Review D</i> , 2018 , 98,	4.9	10

169	. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1	5.4	9
168	Search for Higgs boson decays into two new low-mass spin-0 particles in the 4b channel with the ATLAS detector using pp collisions at $\sqrt{s}=13$ TeV. <i>Physical Review D</i> , 2020 , 102,	4.9	9
167	Measurement of the $t\bar{t}$ production cross-section and lepton differential distributions in $\mu\mu$ dilepton events from pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2020 , 80,	4.2	9
166	Search for the Higgs boson decays $H \rightarrow e\bar{e}$ and $H \rightarrow \mu\mu$ in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2020 , 801, 135143	4.3	9
165	A search for the $Z\gamma$ decay mode of the Higgs boson in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2020 , 809, 135734	4.2	9
164	Search for new non-resonant phenomena in high-mass dilepton final states with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1	5.4	9
163	Measurements of the Higgs boson inclusive and differential fiducial cross sections in the 4ℓ decay channel at $(\sqrt{s}) = 13$ TeV. <i>European Physical Journal C</i> , 2020 , 80, 1	4.2	9
162	Search for squarks and gluinos in final states with hadronically decaying leptons, jets, and missing transverse momentum using pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. <i>Physical Review D</i> , 2019 , 99,	4.9	9
161	Search for supersymmetry in final states with charm jets and missing transverse momentum in 13 TeV pp collisions with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	9
160	Probing the Quantum Interference between Singly and Doubly Resonant Top-Quark Production in pp Collisions at $\sqrt{s}=13$ TeV with the ATLAS Detector. <i>Physical Review Letters</i> , 2018 , 121, 152002	7.4	9
159	Measurement of jet-substructure observables in top quark, W boson and light jet production in proton-proton collisions at $(\sqrt{s}) = 13$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1	5.4	8
158	Measurement of VH , $(\text{H} \rightarrow \text{b}\bar{\text{b}})$ production as a function of the vector-boson transverse momentum in 13 TeV pp collisions with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1	5.4	8
157	Search for pairs of scalar leptoquarks decaying into quarks and electrons or muons in $(\sqrt{s}) = 13$ TeV pp collisions with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1	5.4	8
156	Measurement of Azimuthal Anisotropy of Muons from Charm and Bottom Hadrons in pp Collisions at $\sqrt{s}=13$ TeV with the ATLAS Detector. <i>Physical Review Letters</i> , 2020 , 124, 082301	7.4	8
155	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. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1	5.4	8
154	FPGA-based trigger system for the LUX dark matter experiment. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2016 , 818, 57-67	1.2	8
153	Search for scalar resonances decaying into $\mu\mu$ in events with and without b-tagged jets produced in proton-proton collisions at $(\sqrt{s}=13)$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1	5.4	8
152	Evidence for $(t\bar{t})$ production in the multilepton final state in proton-proton collisions at $(\sqrt{s}=13)$ (TeV) with the ATLAS detector. <i>European Physical Journal C</i> , 2020 , 80, 1	4.2	8

151	Search for light long-lived neutral particles produced in pp collisions at ($\sqrt{s} = 13 \text{ TeV}$) and decaying into collimated leptons or light hadrons with the ATLAS detector. <i>European Physical Journal C</i> , 2020 , 80, 1	4.2	8
150	Performance of the missing transverse momentum triggers for the ATLAS detector during Run-2 data taking. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1	5.4	8
149	Measurements of top-quark pair spin correlations in the (emu) channel at ($\sqrt{s} = 13$) TeV using pp collisions in the ATLAS detector. <i>European Physical Journal C</i> , 2020 , 80, 1	4.2	8
148	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. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1	5.4	8
147	Search for heavy resonances decaying into a pair of Z bosons in the ($\ell^+ \ell^- \ell^+ \ell^-$) and ($\ell^+ \ell^- \nu \bar{\nu}$) final states using 139 (fb^{-1}) of proton-proton collisions at ($\sqrt{s} = 13$) TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2021 , 81, 1	4.2	8
146	Search for charged Higgs bosons decaying into a top quark and a bottom quark at ($\sqrt{s} = 13$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1	5.4	8
145	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. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1	5.4	8
144	Prompt and non-prompt elliptic flow in Pb+Pb collisions at TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2018 , 78, 784	4.2	8
143	Search for heavy resonances decaying to a photon and a hadronically decaying Z/W/H boson in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. <i>Physical Review D</i> , 2018 , 98,	4.9	8
142	Search for vector-boson resonances decaying to a top quark and bottom quark in the lepton plus jets final state in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2019 , 788, 347-370	4.2	7
141	Search for heavy long-lived multicharged particles in proton-proton collisions at $\sqrt{s} = 13$ TeV using the ATLAS detector. <i>Physical Review D</i> , 2019 , 99,	4.9	7
140	Measurements of inclusive and differential fiducial cross-sections of ($t\bar{t}\gamma$) production in leptonic final states at ($\sqrt{s} = 13 \text{ TeV}$) in ATLAS. <i>European Physical Journal C</i> , 2019 , 79, 1	4.2	7
139	Study of the hard double-parton scattering contribution to inclusive four-lepton production in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2019 , 790, 595-614	4.2	7
138	Search for new phenomena in final states with large jet multiplicities and missing transverse momentum using ($\sqrt{s} = 13$ TeV proton-proton collisions recorded by ATLAS in Run 2 of the LHC. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1	5.4	7
137	Transverse momentum and process dependent azimuthal anisotropies in ($\sqrt{s} = 8.16$) TeV p+Pb collisions with the ATLAS detector. <i>European Physical Journal C</i> , 2020 , 80, 1	4.2	7
136	Search for large missing transverse momentum in association with one top-quark in proton-proton collisions at ($\sqrt{s} = 13$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1	5.4	7
135	Measurement of the production cross section for a Higgs boson in association with a vector boson in the $H \rightarrow WW^* \gamma$ channel in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2019 , 798, 134949	4.2	7
134	The LUX-ZEPLIN (LZ) radioactivity and cleanliness control programs. <i>European Physical Journal C</i> , 2020 , 80, 1	4.2	7

132	Search for type-III seesaw heavy leptons in dilepton final states in pp collisions at ($\sqrt{s} = 13, \text{TeV}$) with the ATLAS detector. <i>European Physical Journal C</i> , 2021 , 81, 1	4.2	7
131	Search for a heavy Higgs boson decaying into a Z boson and another heavy Higgs boson in the ($\ell\ell\ell\ell$ bb) and ($\ell\ell\ell\ell$ WW) final states in pp collisions at ($\sqrt{s}=13$) (TeV) with the ATLAS detector. <i>European Physical Journal C</i> , 2021 , 81, 1	4.2	7
130	Measurement of (W^{\pm}) boson production in Pb+Pb collisions at ($\sqrt{s_{\text{NN}}}$) = 5.02- TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2019 , 79, 1	4.2	7
129	Dijet azimuthal correlations and conditional yields in pp and p+Pb collisions at $\sqrt{s_{\text{NN}}}=5.02\text{TeV}$ with the ATLAS detector. <i>Physical Review C</i> , 2019 , 100,	2.7	7
128	Search for electroweak diboson production in association with a high-mass dijet system in semileptonic final states in pp collisions at $\sqrt{s}=13\text{ TeV}$ with the ATLAS detector. <i>Physical Review D</i> , 2019 , 100,	4.9	7
127	Search for bottom-squark pair production with the ATLAS detector in final states containing Higgs bosons, b-jets and missing transverse momentum. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1	5.4	7
126	Measurements of WH and ZH production in the ($H \rightarrow b\bar{b}$) decay channel in pp collisions at ($\sqrt{s}=13, \text{TeV}$) with the ATLAS detector. <i>European Physical Journal C</i> , 2021 , 81, 1	4.2	7
125	Search for lepton-flavor violation in different-flavor, high-mass final states in pp collisions at $\sqrt{s}=13\text{ TeV}$ with the ATLAS detector. <i>Physical Review D</i> , 2018 , 98,	4.9	7
124	Results from the LUX dark matter experiment. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2015 , 784, 504-507	1.2	6
123	Search for Higgs Boson Decays into a Z Boson and a Light Hadronically Decaying Resonance Using $\sqrt{s}=13\text{TeV}$ pp Collision Data from the ATLAS Detector. <i>Physical Review Letters</i> , 2020 , 125, 221802	7.4	6
122	Radon-related Backgrounds in the LUX Dark Matter Search. <i>Physics Procedia</i> , 2015 , 61, 658-665		6
121	Search for resonances decaying into a weak vector boson and a Higgs boson in the fully hadronic final state produced in proton-proton collisions at $\sqrt{s}=13\text{ TeV}$ with the ATLAS detector. <i>Physical Review D</i> , 2020 , 102,	4.9	6
120	Search for (\tilde{t}) resonances in fully hadronic final states in pp collisions at (\sqrt{s}) = 13 TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1	5.4	6
119	Search for flavour-changing neutral currents in processes with one top quark and a photon using 81 fb $^{-1}$ of pp collisions at $\sqrt{s}=13\text{TeV}$ with the ATLAS experiment. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2020 , 800, 135082	4.2	6
118	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. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1	5.4	6
117	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. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1	5.4	6
116	Search for pair production of third-generation scalar leptoquarks decaying into a top quark and a lepton in pp collisions at (\sqrt{s}) = 13 TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1	5.4	6

115	Measurement of the ($Z \rightarrow \nu \bar{\nu}$) production cross section in pp collisions at ($\sqrt{s}=13$) TeV with the ATLAS detector and limits on anomalous triple gauge-boson couplings. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	6
114	Evidence for the production of three massive vector bosons with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2019 , 798, 134913	4.2	5
113	Modelling radiation damage to pixel sensors in the ATLAS detector. <i>Journal of Instrumentation</i> , 2019 , 14, P06012-P06012	1	5
112	Combinations of single-top-quark production cross-section measurements and $ f_{LVVtb} $ determinations at (\sqrt{s}) = 7 and 8 TeV with the ATLAS and CMS experiments. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1	5.4	5
111	Search for the Production of a Long-Lived Neutral Particle Decaying within the ATLAS Hadronic Calorimeter in Association with a Z Boson from pp Collisions at $\sqrt{s}=13$ TeV. <i>Physical Review Letters</i> , 2019 , 122, 151801	7.4	5
110	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. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1	5.4	5
109	Test of CP invariance in vector-boson fusion production of the Higgs boson in the H \rightarrow $\tau^+\tau^-$ channel in proton-proton collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2020 , 805, 135426	4.2	5
108	Z boson production in Pb+Pb collisions at $\sqrt{s_{NN}}=5.02$ TeV measured by the ATLAS experiment. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2020 , 802, 135262	4.2	5
107	Measurement of prompt photon production in $\sqrt{s_{NN}}=8.16$ TeV p + Pb collisions with ATLAS. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2019 , 796, 230-252	4.2	5
106	Observation and Measurement of Forward Proton Scattering in Association with Lepton Pairs Produced via the Photon Fusion Mechanism at ATLAS. <i>Physical Review Letters</i> , 2020 , 125, 261801	7.4	5
105	Evidence for electroweak production of two jets in association with a $Z \rightarrow \ell\bar{\ell}$ pair in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2020 , 803, 135341	4.2	5
104	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. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1	5.4	5
103	Search for the HH $\rightarrow b\bar{b}b\bar{b}$ process via vector-boson fusion production using proton-proton collisions at (\sqrt{s}) = 13 TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1	5.4	5
102	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. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1	5.4	5
101	Measurement of light-by-light scattering and search for axion-like particles with 2.2 nb of Pb+Pb data with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1	5.4	5
100	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. <i>European Physical Journal C</i> , 2021 , 81, 1	4.2	5
99	Measurement of the associated production of a Higgs boson decaying into b-quarks with a vector boson at high transverse momentum in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2021 , 816, 136204	4.2	5
98	Search for pairs of highly collimated photon-jets in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. <i>Physical Review D</i> , 2019 , 99,	4.9	5

97	Measurement of angular and momentum distributions of charged particles within and around jets in Pb+Pb and pp collisions at $\sqrt{s_{NN}}=5.02$ TeV with the ATLAS detector. <i>Physical Review C</i> , 2019 , 100,	2.7	5
96	Differential cross-section measurements for the electroweak production of dijets in association with a Z boson in proton-proton collisions at ATLAS. <i>European Physical Journal C</i> , 2021 , 81, 1	4.2	5
95	Search for dark matter in association with an energetic photon in pp collisions at $(\sqrt{s}) = 13$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1	5.4	5
94	Search for lepton-flavor-violating decays of the Z boson into a dilepton and a light lepton with the ATLAS detector. <i>Physical Review D</i> , 2018 , 98,	4.9	5
93	Search for four-top-quark production in the single-lepton and opposite-sign dilepton final states in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. <i>Physical Review D</i> , 2019 , 99,	4.9	4
92	Measurement of the Lund Jet Plane Using Charged Particles in 13 TeV Proton-Proton Collisions with the ATLAS Detector. <i>Physical Review Letters</i> , 2020 , 124, 222002	7.4	4
91	Search for heavy diboson resonances in semileptonic final states in pp collisions at $(\sqrt{s}=13)$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2020 , 80, 1	4.2	4
90	Alignment of the ATLAS Inner Detector in Run 2. <i>European Physical Journal C</i> , 2020 , 80, 1	4.2	4
89	Measurement of J/ψ production in association with a W^\pm boson with pp data at 8 TeV. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1	5.4	4
88	Search for non-resonant Higgs boson pair production in the $b\bar{b}$ final state with the ATLAS detector in pp collisions at $\sqrt{s}=13$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2020 , 801, 135145	4.2	4
87	Measurement of the $t\bar{t}$ production cross-section in the lepton+jets channel at $\sqrt{s}=13$ TeV with the ATLAS experiment. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2020 , 810, 135797	4.2	4
86	Search for charged-lepton-flavour violation in Z-boson decays with the ATLAS detector. <i>Nature Physics</i> , 2021 , 17, 819-825	16.2	4
85	Measurement of the inclusive cross-section for the production of jets in association with a Z boson in proton-proton collisions at 8 TeV using the ATLAS detector. <i>European Physical Journal C</i> , 2019 , 79, 1	4.2	4
84	Search for dark matter produced in association with a single top quark in $(\sqrt{s}=13)$ TeV (pp) collisions with the ATLAS detector. <i>European Physical Journal C</i> , 2021 , 81, 1	4.2	4
83	Search for dijet resonances in events with an isolated charged lepton using $(\sqrt{s}) = 13$ TeV proton-proton collision data collected by the ATLAS detector. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1	5.4	3
82	Measurement of long-range two-particle azimuthal correlations in Z-boson tagged pp collisions at $(\sqrt{s}=8)$ and 13 TeV. <i>European Physical Journal C</i> , 2020 , 80, 1	4.2	3
81	Search for excited electrons singly produced in proton-proton collisions at $\sqrt{s} \sim 13$ TeV with the ATLAS experiment at the LHC. <i>European Physical Journal C</i> , 2019 , 79,	4.2	3
80	Search for Heavy Resonances Decaying into a Photon and a Hadronically Decaying Higgs Boson in pp Collisions at $\sqrt{s}=13$ TeV with the ATLAS Detector. <i>Physical Review Letters</i> , 2020 , 125, 251802	7.4	3

79	Measurement of K_S^0 and Λ^0 production in $t\bar{t}$ dileptonic events in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2019 , 79, 1	4.2	3
78	Determination of jet calibration and energy resolution in proton-proton collisions at $(\sqrt{s} = 8\text{--}13\text{ TeV})$ using the ATLAS detector. <i>European Physical Journal C</i> , 2020 , 80, 1	4.2	3
77	Reconstruction and identification of boosted di- τ systems in a search for Higgs boson pairs using 13 TeV proton-proton collision data in ATLAS. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1	5.4	3
76	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. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1	5.4	3
75	Resolution of the ATLAS muon spectrometer monitored drift tubes in LHC Run 2. <i>Journal of Instrumentation</i> , 2019 , 14, P09011-P09011	1	3
74	Measurement of hadronic event shapes in high- p_T multijet final states at $(\sqrt{s}) = 13$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1	5.4	3
73	Medium-Induced Modification of Z-Tagged Charged Particle Yields in Pb+Pb Collisions at 5.02 TeV with the ATLAS Detector. <i>Physical Review Letters</i> , 2021 , 126, 072301	7.4	3
72	Search for resonances decaying into photon pairs in 139 fb $^{-1}$ of pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2021 , 822, 136651	4.2	3
71	Properties of jet fragmentation using charged particles measured with the ATLAS detector in pp collisions at $\sqrt{s}=13$ TeV. <i>Physical Review D</i> , 2019 , 100,	4.9	2
70	Measurement of distributions sensitive to the underlying event in inclusive Z boson production in pp collisions at $(\sqrt{s}) = 13$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2019 , 79, 1	4.2	2
69	Properties of $g\text{--}b\bar{b}$ at small opening angles in pp collisions with the ATLAS detector at $\sqrt{s}=13$ TeV. <i>Physical Review D</i> , 2019 , 99,	4.9	2
68	Performance of the upgraded PreProcessor of the ATLAS Level-1 Calorimeter Trigger. <i>Journal of Instrumentation</i> , 2020 , 15, P11016-P11016	1	2
67	Combination of the W boson polarization measurements in top quark decays using ATLAS and CMS data at $(\sqrt{s}) = 8$ TeV. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1	5.4	2
66	Measurement of the $Z(\text{--}\tau\tau)$ production cross-section in pp collisions at $(\sqrt{s}) = 13$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1	5.4	2
65	First Results of the LUX Dark Matter Experiment. <i>Nuclear and Particle Physics Proceedings</i> , 2016 , 273-275, 309-313	0.4	2
64	Search for R-parity-violating supersymmetry in a final state containing leptons and many jets with the ATLAS experiment using $(\sqrt{s} = 13\text{--}13.6\text{ TeV})$ proton-proton collision data. <i>European Physical Journal C</i> , 2021 , 81, 1	4.2	2
63	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. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1	5.4	2
62	Measurement of the inclusive isolated-photon cross section in pp collisions at $(\sqrt{s}) = 13$ TeV using 36 fb $^{-1}$ of ATLAS data. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1	5.4	2

61	Measurement of azimuthal anisotropy of muons from charm and bottom hadrons in Pb+Pb collisions at $\sqrt{s_{NN}}=5.02$ TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2020 , 807, 135595	4.2	2
60	Measurements of inclusive and differential cross-sections of combined $(\overline{t}t\gamma)$ and $t\overline{t}\gamma$ production in the $e\overline{e}$ channel at 13 TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1	5.4	2
59	Measurement of isolated-photon plus two-jet production in pp collisions at $(\sqrt{s}) = 13$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1	5.4	2
58	Search for Dark Matter Produced in Association with a Dark Higgs Boson Decaying into $W^{\pm}W^{\pm}$ or ZZ in Fully Hadronic Final States from $\sqrt{s}=13$ TeV pp Collisions Recorded with the ATLAS Detector. <i>Physical Review Letters</i> , 2021 , 126, 121802	7.4	2
57	Longitudinal Flow Decorrelations in Xe+Xe Collisions at $\sqrt{s_{NN}}=5.44$ TeV with the ATLAS Detector. <i>Physical Review Letters</i> , 2021 , 126, 122301	7.4	2
56	Optimisation of large-radius jet reconstruction for the ATLAS detector in 13 TeV proton-proton collisions. <i>European Physical Journal C</i> , 2021 , 81, 1	4.2	2
55	Search for Displaced Leptons in $\sqrt{s}=13$ TeV pp Collisions with the ATLAS Detector. <i>Physical Review Letters</i> , 2021 , 127, 051802	7.4	2
54	Two-particle azimuthal correlations in photonuclear ultraperipheral Pb+Pb collisions at 5.02 TeV with ATLAS. <i>Physical Review C</i> , 2021 , 104,	2.7	2
53	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. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1	5.4	2
52	Measurement of ZZ production in the $\ell\ell$ final state with the ATLAS detector in pp collisions at $(\sqrt{s}) = 13$ TeV. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1	5.4	2
51	Measurement of (W^{\pm}) -boson and Z-boson production cross-sections in pp collisions at $(\sqrt{s}=2.76)$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2019 , 79, 1	4.2	2
50	Comparison between simulated and observed LHC beam backgrounds in the ATLAS experiment at Ebeam=4 TeV. <i>Journal of Instrumentation</i> , 2018 , 13, P12006-P12006	1	2
49	LUX trigger efficiency. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2018 , 908, 401-410	1.2	2
48	Evidence for Higgs boson decays to a low-mass dilepton system and a photon in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2021 , 819, 136412	4.2	2
47	Exclusive dimuon production in ultraperipheral Pb+Pb collisions at $\sqrt{s_{NN}}=5.02$ TeV with ATLAS. <i>Physical Review C</i> , 2021 , 104,	2.7	2
46	Measurements of top-quark pair single- and double-differential cross-sections in the all-hadronic channel in pp collisions at $(\sqrt{s}) = 13$ TeV using the ATLAS detector. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1	5.4	2
45	Operation and performance of the ATLAS semiconductor tracker in LHC Run-2. <i>Journal of Instrumentation</i> , 2022 , 17, P01013	1	1
44	Search for top squarks in events with a Higgs or Z boson using 139 fb ⁻¹ of pp collision data at $(\sqrt{s}=13)$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2020 , 80, 1	4.2	1

43	Measurement of differential cross sections for single diffractive dissociation in $(\sqrt{s}) = 8$ TeV pp collisions using the ATLAS ALFA spectrometer. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1	5.4	1
42	Search for direct production of electroweakinos in final states with missing transverse momentum and a Higgs boson decaying into photons in pp collisions at $(\sqrt{s}) = 13$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1	5.4	1
41	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. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1	5.4	1
40	Measurement of the CP-violating phase ϕ_s in $B_{s^0} \rightarrow J/\psi \phi$ decays in ATLAS at 13 TeV. <i>European Physical Journal C</i> , 2021 , 81,	4.2	1
39	Test of the universality of κ and λ lepton couplings in W-boson decays with the ATLAS detector. <i>Nature Physics</i> , 2021 , 17, 813-818	16.2	1
38	Determination of the parton distribution functions of the proton from ATLAS measurements of differential W^\pm and Z boson production in association with jets. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1	5.4	1
37	A search for the decays of stopped long-lived particles at $(\sqrt{s}) = 13$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1	5.4	1
36	Performance of the ATLAS RPC detector and Level-1 muon barrel trigger at $(\sqrt{s})=13$ TeV. <i>Journal of Instrumentation</i> , 2021 , 16, P07029	1	1
35	Measurement of single top-quark production in association with a W boson in the single-lepton channel at $(\sqrt{s}) = 8, \text{13 TeV}$ with the ATLAS detector. <i>European Physical Journal C</i> , 2021 , 81, 1	4.2	1
34	Measurements of sensor radiation damage in the ATLAS inner detector using leakage currents. <i>Journal of Instrumentation</i> , 2021 , 16, P08025	1	1
33	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. <i>European Physical Journal C</i> , 2021 , 81, 1	4.2	1
32	Search for New Phenomena in Final States with Two Leptons and One or No b-Tagged Jets at $\sqrt{s}=13$ TeV Using the ATLAS Detector. <i>Physical Review Letters</i> , 2021 , 127, 141801	7.4	1
31	Search for phenomena beyond the Standard Model in events with large b-jet multiplicity using the ATLAS detector at the LHC. <i>European Physical Journal C</i> , 2021 , 81, 1	4.2	1
30	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. <i>European Physical Journal C</i> , 2021 , 81, 1	4.2	1
29	Configuration and performance of the ATLAS b-jet triggers in Run 2. <i>European Physical Journal C</i> , 2021 , 81, 1	4.2	1
28	Determination of the parton distribution functions of the proton using diverse ATLAS data from pp collisions at $\sqrt{s} = 7, 8$ and 13 TeV. <i>European Physical Journal C</i> , 2022 , 82, 1	4.2	1
27	Emulating the impact of additional proton-proton interactions in the ATLAS simulation by presampling sets of inelastic Monte Carlo events. <i>Computing and Software for Big Science</i> , 2022 , 6, 1	6	0
26	Performance of the ATLAS Level-1 topological trigger in Run 2. <i>European Physical Journal C</i> , 2022 , 82, 1	4.2	0

25	Search for exotic decays of the Higgs boson into $b\bar{b}$ and missing transverse momentum in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2022 , 2022, 1	5.4	○
24	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 $\sqrt{s} = 13$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2022 , 82, 1	4.2	○
23	Design and production of the high voltage electrode grids and electron extraction region for the LZ dual-phase xenon time projection chamber. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2021 , 165955	1.2	○
22	Measurement of the $t\bar{t}$ production cross section in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1	5.4	○
21	Search for new phenomena in three- or four-lepton events in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2022 , 824, 136832	4.2	○
20	Observation of photon-induced $W+W$ production in pp collisions at $\sqrt{s} = 13$ TeV using the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2021 , 816, 136190	4.2	○
19	Measurements of $W+W$ jet production cross-sections in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1	5.4	○
18	Measurements of Higgs bosons decaying to bottom quarks from vector boson fusion production with the ATLAS experiment at $\sqrt{s} = 13$ TeV. <i>European Physical Journal C</i> , 2021 , 81, 1	4.2	○
17	Measurements of differential cross-sections in four-lepton events in 13 TeV proton-proton collisions with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1	5.4	○
16	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. <i>European Physical Journal C</i> , 2021 , 81, 1	4.2	○
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13	AtlFast3: The Next Generation of Fast Simulation in ATLAS. <i>Computing and Software for Big Science</i> , 2022 , 6, 1	6	○
12	Measurement of the energy response of the ATLAS calorimeter to charged pions from $W \rightarrow \tau \rightarrow \pi \nu_\tau \nu_\tau$ events in Run2 data. <i>European Physical Journal C</i> , 2022 , 82, 1	4.2	○
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