

Miguel Arratia

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484 papers	17,622 citations	63 h-index	100 g-index
492 ext. papers	20,498 ext. citations	4.6 avg, IF	3.58 L-index

#	Paper	IF	Citations
484	Combined Measurement of the Higgs Boson Mass in pp Collisions at $\sqrt{s}=7$ and 8 TeV with the ATLAS and CMS Experiments. <i>Physical Review Letters</i> , 2015 , 114, 191803	7.4	709
483	Measurements of the Higgs boson production and decay rates and constraints on its couplings from a combined ATLAS and CMS analysis of the LHC pp collision data at ($\sqrt{s}=7$) and 8 TeV. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1	5.4	364
482	Performance of the ATLAS trigger system in 2015. <i>European Physical Journal C</i> , 2017 , 77, 317	4.2	272
481	Muon reconstruction performance of the ATLAS detector in proton-proton collision data at $\sqrt{s}=13$ TeV. <i>European Physical Journal C</i> , 2016 , 76, 292	4.2	263
480	Search for high-mass dilepton resonances in pp collisions at $\sqrt{s}=8$ TeV with the ATLAS detector. <i>Physical Review D</i> , 2014 , 90,	4.9	209
479	Search for new phenomena in final states with an energetic jet and large missing transverse momentum in collisions at $\sqrt{s}=8$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2015 , 75, 299	4.2	202
478	Search for new phenomena in the dijet mass distribution using pp collision data at $\sqrt{s}=8$ TeV with the ATLAS detector. <i>Physical Review D</i> , 2015 , 91,	4.9	196
477	Luminosity determination in collisions at $\sqrt{s}=8$ TeV using the ATLAS detector at the LHC. <i>European Physical Journal C</i> , 2016 , 76, 653	4.2	188
476	Measurements of the Higgs boson production and decay rates and coupling strengths using collision data at $\sqrt{s}=7$ and 8 TeV in the ATLAS experiment. <i>European Physical Journal C</i> , 2016 , 76, 6	4.2	185
475	Topological cell clustering in the ATLAS calorimeters and its performance in LHC Run 1. <i>European Physical Journal C</i> , 2017 , 77, 490	4.2	177
474	Measurement of Higgs boson production in the diphoton decay channel in pp collisions at center-of-mass energies of 7 and 8 TeV with the ATLAS detector. <i>Physical Review D</i> , 2014 , 90,	4.9	175
473	Measurement of the muon reconstruction performance of the ATLAS detector using 2011 and 2012 LHC proton-proton collision data. <i>European Physical Journal C</i> , 2014 , 74, 3130	4.2	166
472	Electron and photon energy calibration with the ATLAS detector using LHC Run 1 data. <i>European Physical Journal C</i> , 2014 , 74, 1	4.2	160
471	Search for an additional, heavy Higgs boson in the $H \rightarrow ZZ^* \rightarrow 4\ell$ decay channel at $\sqrt{s}=8$ TeV in $\sqrt{s}=7$ and 8 TeV collision data with the ATLAS detector. <i>European Physical Journal C</i> , 2016 , 76, 45	4.2	152
470	Measurement of the Higgs boson mass from the $H \rightarrow \tau\tau$ and $H \rightarrow ZZ^* \rightarrow 4\ell$ channels in pp collisions at center-of-mass energies of 7 and 8 TeV with the ATLAS detector. <i>Physical Review D</i> , 2014 , 90,	4.9	151
469	Performance of pile-up mitigation techniques for jets in $\sqrt{s}=7$ and 8 TeV collisions at $\sqrt{s}=13$ TeV using the ATLAS detector. <i>European Physical Journal C</i> , 2016 , 76, 581	4.2	148
468	Observation of Long-Range Elliptic Azimuthal Anisotropies in $\sqrt{s}=13$ and 2.76 TeV pp Collisions with the ATLAS Detector. <i>Physical Review Letters</i> , 2016 , 116, 172301	7.4	140

467	Search for new high-mass phenomena in the dilepton final state using 36 fb ⁻¹ of proton-proton collision data at ($\sqrt{s}=13$) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1	5.4	126
466	Search for new phenomena in final states with an energetic jet and large missing transverse momentum in pp collisions at $\sqrt{s}=13$ TeV using the ATLAS detector. <i>Physical Review D</i> , 2016 , 94,	4.9	126
465	Measurements of Higgs boson production and couplings in the four-lepton channel in pp collisions at center-of-mass energies of 7 and 8 TeV with the ATLAS detector. <i>Physical Review D</i> , 2015 , 91,	4.9	125
464	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
463	Search for scalar diphoton resonances in the mass range 65-600 GeV with the ATLAS detector in pp collision data at $\sqrt{s}=8$ TeV. <i>Physical Review Letters</i> , 2014 , 113, 171801	7.4	117
462	Jet energy scale measurements and their systematic uncertainties in proton-proton collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. <i>Physical Review D</i> , 2017 , 96,	4.9	116
461	Search for pair-produced third-generation squarks decaying via charm quarks or in compressed supersymmetric scenarios in pp collisions at $\sqrt{s}=8$ TeV with the ATLAS detector. <i>Physical Review D</i> , 2014 , 90,	4.9	115
460	Search for new resonances in W and Z final states 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> , 2014 , 738, 428-447	4.2	112
459	ATLAS Run 1 searches for direct pair production of third-generation squarks at the Large Hadron Collider. <i>European Physical Journal C</i> , 2015 , 75, 510	4.2	109
458	Measurement of inclusive jet charged-particle fragmentation functions in Pb+Pb collisions at $\sqrt{s_{NN}}=2.76$ TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2014 , 739, 320-342	4.2	109
457	Search for squarks and gluinos with the ATLAS detector in final states with jets and missing transverse momentum using ($\sqrt{s}=8$) TeV proton-proton collision data. <i>Journal of High Energy Physics</i> , 2014 , 2014, 1	5.4	108
456	Measurement of the [Formula: see text] production cross-section using [Formula: see text] events with [Formula: see text]-tagged jets in [Formula: see text] collisions at [Formula: see text] and 8 TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2014 , 74, 3109	4.2	107
455	Measurement of the total cross section from elastic scattering in pp collisions at $\sqrt{s}=7$ TeV with the ATLAS detector. <i>Nuclear Physics B</i> , 2014 , 889, 486-548	2.8	105
454	Study of the spin and parity of the Higgs boson in diboson decays with the ATLAS detector. <i>European Physical Journal C</i> , 2015 , 75, 476	4.2	104
453	Search for new phenomena in dijet mass and angular distributions from pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2016 , 754, 302-322	4.2	104
452	Search for dark matter and other new phenomena in events with an energetic jet and large missing transverse momentum using the ATLAS detector. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	101
451	Measurements of the Nuclear Modification Factor for Jets in Pb+Pb Collisions at $\sqrt{s_{NN}}=2.76$ TeV with the ATLAS detector. <i>Physical Review Letters</i> , 2015 , 114, 072302	7.4	99
450	Search for the Standard Model Higgs boson produced in association with top quarks and decaying into [Formula: see text] in [Formula: see text] collisions at [Formula: see text] with the ATLAS detector. <i>European Physical Journal C</i> , 2015 , 75, 349	4.2	94

449	Measurement of the Inelastic Proton-Proton Cross Section at $\sqrt{s}=13$ TeV with the ATLAS Detector at the LHC. <i>Physical Review Letters</i> , 2016 , 117, 182002	7.4	92
448	Constraints on new phenomena via Higgs boson couplings and invisible decays with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2015 , 2015, 1	5.4	91
447	Search for Higgs boson pair production in the $B\bar{B}$ final state using pp collision data at $\sqrt{s}=8$ TeV from the ATLAS detector. <i>Physical Review Letters</i> , 2015 , 114, 081802	7.4	90
446	Search for new phenomena in dijet events using 37 fb of pp collision data collected at $s=13$ TeV with the ATLAS detector. <i>Physical Review D</i> , 2017 , 96,	4.9	89
445	Search for a CP-odd Higgs boson decaying to Zh in pp collisions at $s=8$ TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2015 , 744, 163-183	4.2	88
444	Searches for Higgs boson pair production in the $hh\text{-}b\bar{b}\gamma\gamma^*$, $B\bar{B}$, $b\bar{b}b\bar{b}$ channels with the ATLAS detector. <i>Physical Review D</i> , 2015 , 92,	4.9	87
443	Measurement of long-range pseudorapidity correlations and azimuthal harmonics in $s_{NN}=5.02$ TeV proton-lead collisions with the ATLAS detector. <i>Physical Review C</i> , 2014 , 90,	2.7	87
442	Observation of $H\text{-}b\bar{b}$ 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
441	Observation and measurement of Higgs boson decays to WW^* with the ATLAS detector. <i>Physical Review D</i> , 2015 , 92,	4.9	86
440	Search for high-mass diphoton resonances in pp collisions at $s=8$ TeV with the ATLAS detector. <i>Physical Review D</i> , 2015 , 92,	4.9	85
439	Search for additional heavy neutral Higgs and gauge bosons in the ditau final state produced in 36 fb 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
438	Search for squarks and gluinos in final states with jets and missing transverse momentum using 36 fb of $s=13$ TeV pp collision data with the ATLAS detector. <i>Physical Review D</i> , 2018 , 97,	4.9	80
437	Measurement of the $Z/\bar{\nu}$ boson transverse momentum distribution in pp collisions at ($\sqrt{s}=7$) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2014 , 2014, 1	5.4	79
436	Centrality and rapidity dependence of inclusive jet production in $s_{NN}=5.02$ TeV proton-lead collisions with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2015 , 748, 392-413	4.2	77
435	Search for massive, long-lived particles using multitrack displaced vertices or displaced lepton pairs in pp collisions at $s=8$ TeV with the ATLAS detector. <i>Physical Review D</i> , 2015 , 92,	4.9	75
434	Evidence for the Higgs-boson Yukawa coupling to tau leptons with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2015 , 2015, 1	5.4	74
433	Measurements of Higgs boson properties in the diphoton decay channel with 36 fb of pp collision data at $s=13$ TeV with the ATLAS detector. <i>Physical Review D</i> , 2018 , 98,	4.9	74
432	Search for production of [Formula: see text] resonances decaying to a lepton, neutrino and jets in [Formula: see text] collisions at [Formula: see text] TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2015 , 75, 209	4.2	73

431	Evidence for electroweak production of $W\bar{W}jj$ in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. <i>Physical Review Letters</i> , 2014 , 113, 141803	7.4	73
430	Measurement of the total cross section from elastic scattering in pp collisions at $s=8$ TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2016 , 761, 158-178	4.2	72
429	Searches for scalar leptoquarks in collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2016 , 76, 5	4.2	68
428	Search for Higgs boson pair production in the $W\bar{W}jj$ final state from collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2015 , 75, 412	4.2	66
427	Search for high-mass diboson resonances with boson-tagged jets in proton-proton collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2015 , 2015, 1-39	5.4	66
426	Performance of missing transverse momentum reconstruction with the ATLAS detector using proton-proton collisions at $\sqrt{s} = 8$ TeV. <i>European Physical Journal C</i> , 2018 , 78, 903	4.2	66
425	Search for heavy Majorana neutrinos with the ATLAS detector in pp collisions at $\sqrt{s} = 8$ TeV. <i>Journal of High Energy Physics</i> , 2015 , 2015, 1	5.4	65
424	Search for the $\tau\tau$ decay of the Standard Model Higgs boson in associated (W/Z)H production with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2015 , 2015, 1	5.4	64
423	Measurement of $W\bar{W}$ and Z-boson production cross sections in pp collisions at $s=13$ TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2016 , 759, 601-621	4.2	64
422	Measurement of the transverse momentum and \sqrt{s} distributions of Drell-Yan lepton pairs in proton-proton collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2016 , 76, 291	4.2	63
421	Search for new phenomena in events with a photon and missing transverse momentum in pp collisions at $s=8$ TeV with the ATLAS detector. <i>Physical Review D</i> , 2015 , 91,	4.9	62
420	Search for resonant diboson production in the $W\bar{W}jj$ final state in $W\bar{W}jj$ collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2015 , 75, 69	4.2	62
419	Electron efficiency measurements with the ATLAS detector using 2012 LHC proton-proton collision data. <i>European Physical Journal C</i> , 2017 , 77, 195	4.2	61
418	Search for dark matter in events with heavy quarks and missing transverse momentum in $W\bar{W}jj$ collisions with the ATLAS detector. <i>European Physical Journal C</i> , 2015 , 75, 92	4.2	60
417	Measurement of the W -boson mass in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2018 , 78, 110	4.2	59
416	Measurement of the correlation between flow harmonics of different order in lead-lead collisions at $s_{NN}=2.76$ TeV with the ATLAS detector. <i>Physical Review C</i> , 2015 , 92,	2.7	59
415	Search for a high-mass Higgs boson decaying to a W boson pair in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1	5.4	59
414	A search for $\tau\tau$ resonances using lepton-plus-jets events in proton-proton collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2015 , 2015, 1	5.4	57

413	Search for charged Higgs bosons decaying via $H \rightarrow b\bar{b}$ in fully hadronic final states using pp collision data at $(\sqrt{s}) = 8$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2015 , 2015, 1	5-4	56
412	Constraints on the off-shell Higgs boson signal strength in the high-mass and final states with the ATLAS detector. <i>European Physical Journal C</i> , 2015 , 75, 335	4-2	56
411	Precision measurement and interpretation of inclusive τ and production cross sections with the ATLAS detector. <i>European Physical Journal C</i> , 2017 , 77, 367	4-2	56
410	Search for doubly charged Higgs boson production in multi-lepton final states with the ATLAS detector using proton-proton collisions at $\sqrt{s} = 8$ TeV. <i>European Physical Journal C</i> , 2018 , 78, 199	4-2	55
409	Summary of the searches for squarks and gluinos using $(\sqrt{s}=8)$ TeV pp collisions with the ATLAS experiment at the LHC. <i>Journal of High Energy Physics</i> , 2015 , 2015, 1	5-4	55
408	Search for $H \rightarrow b\bar{b}$ produced in association with top quarks and constraints on the Yukawa coupling between the top quark and the Higgs boson using data taken at 7 TeV and 8 TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2015 , 740, 222-242	4-2	55
407	Fiducial and differential cross sections of Higgs boson production measured in the four-lepton decay channel 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> , 2014 , 738, 234-253	4-2	55
406	Measurements of the $[Formula: see text]$ production cross sections in association with jets with the ATLAS detector. <i>European Physical Journal C</i> , 2015 , 75, 82	4-2	54
405	Search for production of vector-like quark pairs and of four top quarks in the lepton-plus-jets final state in pp collisions at $(\sqrt{s}=8)$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2015 , 2015, 1	5-4	54
404	Search for top squark pair production in final states with one isolated lepton, jets, and missing transverse momentum in $(\sqrt{s}) = 8$ TeV pp collisions with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2014 , 2014, 1	5-4	54
403	Search for squarks and gluinos in final states with jets and missing transverse momentum at $[Formula: see text] = 13$ [Formula: see text] with the ATLAS detector. <i>European Physical Journal C</i> , 2016 , 76, 392	4-2	53
402	Search for new phenomena in events with at least three photons collected in collisions at $[Formula: see text] = 8$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2016 , 76, 210	4-2	53
401	Measurement of the photon identification efficiencies with the ATLAS detector using LHC Run-1 data. <i>European Physical Journal C</i> , 2016 , 76, 666	4-2	53
400	Search for new phenomena in high-mass diphoton final states using 37 fb $^{-1}$ of proton-proton collisions collected at $\sqrt{s}=13$ TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2017 , 775, 105-125	4-2	52
399	Search for lepton-flavour-violating decays of the Higgs and bosons with the ATLAS detector. <i>European Physical Journal C</i> , 2017 , 77, 70	4-2	52
398	Search for dark matter at $[Formula: see text]$ in final states containing an energetic photon and large missing transverse momentum with the ATLAS detector. <i>European Physical Journal C</i> , 2017 , 77, 393	4-2	52
397	Search for long-lived, weakly interacting particles that decay to displaced hadronic jets in proton-proton collisions at $\sqrt{s}=8$ TeV with the ATLAS detector. <i>Physical Review D</i> , 2015 , 92,	4-9	52
396	Search for WZ resonances in the fully leptonic channel using pp collisions at $\sqrt{s}=8$ TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2014 , 737, 223-243	4-2	52

395	Search for the Standard Model Higgs boson decay to $\mu\mu$ with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2014 , 738, 68-86	4.2	52
394	Observation of an excited $B_c(\bar{H})$ meson state with the ATLAS detector. <i>Physical Review Letters</i> , 2014 , 113, 212004	7.4	52
393	Measurement of flow harmonics with multi-particle cumulants in Pb+Pb collisions at $\sqrt{s}=2.76$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2014 , 74, 3157	4.2	52
392	Performance of the ATLAS muon trigger in pp collisions at $\sqrt{s}=13$ TeV. <i>European Physical Journal C</i> , 2015 , 75, 120	4.2	51
391	Search for the associated production of the Higgs boson with a top quark pair in multilepton final states with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2015 , 749, 519-541	4.2	51
390	Search for scalar leptoquarks in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS experiment. <i>New Journal of Physics</i> , 2016 , 18, 093016	2.9	51
389	Evidence for the $(H \rightarrow \bar{b}b)$ decay with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1	5.4	50
388	Search for direct pair production of a chargino and a neutralino decaying to the 125 GeV Higgs boson in $\sqrt{s}=13$ TeV collisions with the ATLAS detector. <i>European Physical Journal C</i> , 2015 , 75, 208	4.2	50
387	Identification and energy calibration of hadronically decaying tau leptons with the ATLAS experiment in collisions at $\sqrt{s}=13$ TeV. <i>European Physical Journal C</i> , 2015 , 75, 303	4.2	49
386	Measurement of charged-particle spectra in Pb+Pb collisions at $(\sqrt{s_{NN}}=2.76)$ TeV with the ATLAS detector at the LHC. <i>Journal of High Energy Physics</i> , 2015 , 2015, 1	5.4	49
385	Search for resonances in diphoton events at $(\sqrt{s}=13)$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1	5.4	49
384	Search for electroweak production of supersymmetric particles in final states with two or three leptons at $\sqrt{s}=13$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2018 , 78, 995	4.2	49
383	Measurement of spin correlation in top-antitop quark events and search for top squark pair production in pp collisions at $\sqrt{s}=8$ TeV using the ATLAS detector. <i>Physical Review Letters</i> , 2015 , 114, 142001	7.4	48
382	Measurements of top-quark pair differential cross-sections in the lepton+jets channel in collisions at $\sqrt{s}=13$ TeV using the ATLAS detector. <i>European Physical Journal C</i> , 2016 , 76, 538	4.2	48
381	Search for supersymmetry at $\sqrt{s}=13$ TeV in final states with jets and two same-sign leptons or three leptons with the ATLAS detector. <i>European Physical Journal C</i> , 2016 , 76, 259	4.2	48
380	Measurement of multi-particle azimuthal correlations in pp, p+Pb and low-multiplicity Pb+Pb collisions with the ATLAS detector. <i>European Physical Journal C</i> , 2017 , 77, 428	4.2	48
379	Search for high-mass new phenomena in the dilepton final state using 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> , 2016 , 761, 372-392	4.2	48
378	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

377	Measurement of the prompt $t\bar{t}$ pair production cross-section in collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2017 , 77, 76	4.2	47
376	Search for heavy resonances decaying into in the final state in collisions at with the ATLAS detector. <i>European Physical Journal C</i> , 2018 , 78, 24	4.2	47
375	Measurements of $W\pm Z$ production cross sections in pp collisions at $\sqrt{s}=8$ TeV with the ATLAS detector and limits on anomalous gauge boson self-couplings. <i>Physical Review D</i> , 2016 , 93,	4.9	47
374	Measurement of the $t\bar{t}$ production cross-section using $e\bar{e}$ events with b-tagged 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> , 2016 , 761, 136-157	4.2	47
373	Comprehensive measurements of t-channel single top-quark production cross sections at $\sqrt{s}=7$ TeV with the ATLAS detector. <i>Physical Review D</i> , 2014 , 90,	4.9	47
372	Search for electroweak production of supersymmetric states in scenarios with compressed mass spectra at $\sqrt{s}=13$ TeV with the ATLAS detector. <i>Physical Review D</i> , 2018 , 97,	4.9	47
371	Search for a new resonance decaying to a or boson and a Higgs boson in the $t\bar{t}$ final states with the ATLAS detector. <i>European Physical Journal C</i> , 2015 , 75, 263	4.2	46
370	Production of charged pions, kaons, and (anti-)protons in Pb-Pb and inelastic pp collisions at $\sqrt{s_{NN}}=5.02$ TeV. <i>Physical Review C</i> , 2020 , 101,	2.7	46
369	Search for the electroweak production of supersymmetric particles in $\sqrt{s}=8$ TeV pp collisions with the ATLAS detector. <i>Physical Review D</i> , 2016 , 93,	4.9	46
368	Search for lepton-flavour-violating H - μ decays of the Higgs boson with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2015 , 2015, 1	5.4	46
367	Search for anomalous production of prompt same-sign lepton pairs and pair-produced doubly charged Higgs bosons with $(\sqrt{s}=8)$ TeV pp collisions using the ATLAS detector. <i>Journal of High Energy Physics</i> , 2015 , 2015, 1	5.4	45
366	Search for invisible decays of a Higgs boson using vector-boson fusion in pp collisions at $(\sqrt{s}=8)$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1	5.4	45
365	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
364	Search for pair-produced long-lived neutral particles decaying to jets in the ATLAS hadronic calorimeter in pp collisions at $\sqrt{s}=8$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2015 , 743, 15-34	4.2	44
363	Search for supersymmetry in events containing a same-flavour opposite-sign dilepton pair, jets, and large missing transverse momentum in $\sqrt{s}=13$ TeV collisions with the ATLAS detector. <i>European Physical Journal C</i> , 2015 , 75, 318	4.2	44
362	Search for long-lived, massive particles in events with displaced vertices and missing transverse momentum in $\sqrt{s}=13$ TeV pp collisions with the ATLAS detector. <i>Physical Review D</i> , 2018 , 97,	4.9	44
361	Charged-particle distributions in $\sqrt{s}=13$ TeV pp interactions measured with the ATLAS detector at the LHC. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2016 , 758, 67-88	4.2	44
360	Identification of boosted, hadronically decaying bosons and comparisons with ATLAS data taken at $\sqrt{s}=13$ TeV. <i>European Physical Journal C</i> , 2016 , 76, 154	4.2	44

359	Search for vectorlike B quarks in events with one isolated lepton, missing transverse momentum, and jets at $\sqrt{s}=8$ TeV with the ATLAS detector. <i>Physical Review D</i> , 2015 , 91,	4.9	44
358	Search for charged Higgs bosons produced in association with a top quark and decaying via $H^\pm \rightarrow \tau^\pm \nu_\tau$ using pp collision data recorded at $\sqrt{s}=13$ TeV by the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2016 , 759, 555-574	4.2	44
357	Jet reconstruction and performance using particle flow with the ATLAS Detector. <i>European Physical Journal C</i> , 2017 , 77, 466	4.2	42
356	Search for $W^\pm b\bar{b}$ in the lepton plus jets final state in proton-proton collisions at a centre-of-mass energy of $\sqrt{s}=8$ TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2015 , 743, 235-255	4.2	42
355	Measurement of the differential cross-sections of prompt and non-prompt production of [Formula: see text] and [Formula: see text] in collisions at [Formula: see text] and 8TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2016 , 76, 283	4.2	42
354	Summary of the ATLAS experiment's sensitivity to supersymmetry after LHC Run 1 [Interpreted in the phenomenological MSSM. <i>Journal of High Energy Physics</i> , 2015 , 2015, 1	5.4	42
353	Measurement of the top quark mass in the $t\bar{t} \rightarrow \text{dilepton}$ channel from $\sqrt{s}=8$ TeV ATLAS data. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2016 , 761, 350-371	4.2	42
352	Search for heavy resonances in the $t\bar{t} \rightarrow \text{lepton} + \text{jet}$ final states using proton-proton collisions at $\sqrt{s}=8$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2018 , 78, 293	4.2	41
351	Search for top squarks in final states with one isolated lepton, jets, and missing transverse momentum in $\sqrt{s}=13$ TeV pp collisions with the ATLAS detector. <i>Physical Review D</i> , 2016 , 94,	4.9	41
350	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
349	Search for new particles in events with one lepton and missing transverse momentum in pp collisions at $(\sqrt{s}) = 8$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2014 , 2014, 1	5.4	40
348	Search for Higgs bosons decaying to $a\bar{a}$ in the $t\bar{t}$ final state in pp collisions at $\sqrt{s}=8$ TeV with the ATLAS experiment. <i>Physical Review D</i> , 2015 , 92,	4.9	40
347	Search for pair production of a new heavy quark that decays into a W boson and a light quark in pp collisions at $\sqrt{s}=8$ TeV with the ATLAS detector. <i>Physical Review D</i> , 2015 , 92,	4.9	40
346	Investigations of Anisotropic Flow Using Multiparticle Azimuthal Correlations in pp, p-Pb, Xe-Xe, and Pb-Pb Collisions at the LHC. <i>Physical Review Letters</i> , 2019 , 123, 142301	7.4	39
345	Performance of algorithms that reconstruct missing transverse momentum in [Formula: see text]=8 TeV proton-proton collisions in the ATLAS detector. <i>European Physical Journal C</i> , 2017 , 77, 241	4.2	38
344	Observation and measurements of the production of prompt and non-prompt [Formula: see text] mesons in association with a [Formula: see text] boson in [Formula: see text] collisions at [Formula: see text] with the ATLAS detector. <i>European Physical Journal C</i> , 2015 , 75, 229	4.2	38
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342	Search for an invisibly decaying Higgs boson or dark matter candidates produced in association with a Z 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> , 2018 , 776, 318-337	4.2	38

341	Search for squarks and gluinos in events with isolated leptons, jets and missing transverse momentum at ($\sqrt{s}=8$) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2015 , 2015, 1	5-4	37
340	Search for the lepton flavor violating decay $Z \rightarrow b\bar{b}\nu$ in pp collisions at $\sqrt{s}=8$ TeV with the ATLAS detector. <i>Physical Review D</i> , 2014 , 90,	4-9	37
339	Charged-particle distributions at low transverse momentum in [Formula: see text]TeV interactions measured with the ATLAS detector at the LHC. <i>European Physical Journal C</i> , 2016 , 76, 502	4-2	37
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335	Measurement of longitudinal flow decorrelations in Pb+Pb collisions at and 5.02 TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2018 , 78, 142	4-2	35
334	Measurement of quarkonium production in proton-lead and proton-proton collisions at with the ATLAS detector. <i>European Physical Journal C</i> , 2018 , 78, 171	4-2	35
333	Measurement of the charged-particle multiplicity inside jets from [Formula: see text][Formula: see text] collisions with the ATLAS detector. <i>European Physical Journal C</i> , 2016 , 76, 322	4-2	35
332	Search for pair production of Higgs bosons in the $b\bar{b}b\bar{b}$ final state using proton-proton collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. <i>Physical Review D</i> , 2016 , 94,	4-9	35
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330	Measurement of jet fragmentation in Pb+Pb and collisions at TeV with the ATLAS detector at the LHC. <i>European Physical Journal C</i> , 2017 , 77, 379	4-2	35
329	Measurements of long-range azimuthal anisotropies and associated Fourier coefficients for pp collisions at $\sqrt{s}=5.02$ and 13 TeV and p+Pb collisions at $\sqrt{s_{NN}}=5.02$ TeV with the ATLAS detector. <i>Physical Review C</i> , 2017 , 96,	2-7	34
328	Search for magnetic monopoles and stable particles with high electric charges in 8 TeV pp collisions with the ATLAS detector. <i>Physical Review D</i> , 2016 , 93,	4-9	34
327	Search for heavy long-lived charged R-hadrons with the ATLAS detector in 3.2 fb of proton-proton collision data at $\sqrt{s}=13$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2016 , 760, 647-665	4-2	34
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325	Search for heavy particles decaying into top-quark pairs using lepton-plus-jets events in proton-proton collisions at with the ATLAS detector. <i>European Physical Journal C</i> , 2018 , 78, 565	4-2	34
324	Search for Higgs and Z Boson Decays to J/ψ and $\gamma(nS)\gamma$ with the ATLAS Detector. <i>Physical Review Letters</i> , 2015 , 114, 121801	7-4	33

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322	Performance of the ATLAS track reconstruction algorithms in dense environments in LHC Run 2. <i>European Physical Journal C</i> , 2017 , 77, 673	4.2	33
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293	Two-particle Bose-Einstein correlations in collisions at [Formula: see text] 0.9 and 7 TeV measured with the ATLAS detector. <i>European Physical Journal C</i> , 2015 , 75, 466	4.2	28
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279	Study of the rare decays of [Formula: see text] and [Formula: see text] into muon pairs from data collected during the LHC Run 1 with the ATLAS detector. <i>European Physical Journal C</i> , 2016 , 76, 513	4.2	27
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277	Search for the Decay of the Higgs Boson to Charm Quarks with the ATLAS Experiment. <i>Physical Review Letters</i> , 2018 , 120, 211802	7.4	27
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263	Search for $[\text{Formula: see text}]$ decays in $[\text{Formula: see text}]$ collisions at $[\text{Formula: see text}] \sqrt{s}=8$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2015 , 75, 165	4.2	25
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261	Measurement of the inclusive isolated prompt photon cross section in pp collisions at ($\sqrt{s}=8$) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1	5.4	25
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259	Search for pair production of gluinos decaying via stop and sbottom in events with b-jets and large missing transverse momentum in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. <i>Physical Review D</i> , 2016 , 94,	4.9	24
258	Measurement of the double-differential high-mass Drell-Yan cross section in pp collisions at ($\sqrt{s}=8$) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1	5.4	24
257	Search for single production of vector-like quarks decaying into in collisions at $[\text{Formula: see text}] \sqrt{s}=13$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2016 , 76, 442	4.2	24
256	Measurement of the Soft-Drop Jet Mass in pp Collisions at $\sqrt{s}=13$ TeV with the ATLAS Detector. <i>Physical Review Letters</i> , 2018 , 121, 092001	7.4	24
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254	Search for the direct production of charginos and neutralinos in final states with tau leptons in collisions with the ATLAS detector. <i>European Physical Journal C</i> , 2018 , 78, 154	4.2	23
253	Measurement of exclusive $BW+W$ production and search for exclusive Higgs boson production in pp collisions at $\sqrt{s}=8$ TeV using the ATLAS detector. <i>Physical Review D</i> , 2016 , 94,	4.9	23
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246	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
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242	Search for heavy long-lived multi-charged particles in collisions at [Formula: see text] TeV using the ATLAS detector. <i>European Physical Journal C</i> , 2015 , 75, 362	4.2	22
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240	A search for prompt lepton-jets in pp collisions at ($\sqrt{\text{mathrm{s}}}=8$) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1	5.4	22
239	Search for supersymmetry in final states with two same-sign or three leptons and jets using 36 fb of ($\sqrt{s}=13$) TeV pp collision data with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1	5.4	22
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230	Study of hard double-parton scattering in four-jet events in pp collisions at $(\sqrt{s}=7)$ TeV with the ATLAS experiment. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1	5.4	21
229	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
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227	$ZZ\rightarrow 4\ell$ cross-section measurements and search for anomalous triple gauge couplings in 13 TeV pp collisions with the ATLAS detector. <i>Physical Review D</i> , 2018 , 97,	4.9	21
226	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
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224	Measurement of the angular coefficients in Z-boson events using electron and muon pairs from data taken at $(\sqrt{s}=8)$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1	5.4	20
223	Searches for heavy diboson resonances in pp collisions at $(\sqrt{s}=13)$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1	5.4	20
222	Search for heavy resonances decaying to a W or Z boson and a Higgs boson in the $qq(\gamma)bb$ 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> , 2017 , 774, 494-515	4.2	20
221	Searches for the $Z\gamma$ decay mode of the Higgs boson and for new high-mass resonances in pp collisions at $(\sqrt{s}=13)$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1	5.4	20
220	Measurement of the top pair production cross section in 8 TeV proton-proton collisions using kinematic information in the lepton+jets final state with ATLAS. <i>Physical Review D</i> , 2015 , 91,	4.9	20
219	Evidence of $W\gamma$ Production in pp Collisions at $\sqrt{s}=8$ TeV and Limits on Anomalous Quartic Gauge Couplings with the ATLAS Detector. <i>Physical Review Letters</i> , 2015 , 115, 031802	7.4	20
218	Search for gluinos in events with an isolated lepton, jets and missing transverse momentum at $[\text{Formula: see text}] = 13$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2016 , 76, 565	4.2	20
217	Search for Higgs boson decays into a pair of light bosons in the $bb\gamma\gamma$ 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
216	Measurement of the boson polarisation in $[\text{Formula: see text}]$ events from collisions at $[\text{Formula: see text}] = 8$ TeV in the lepton+ γ -jets channel with ATLAS. <i>European Physical Journal C</i> , 2017 , 77, 264	4.2	19

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214	Search for direct top squark pair production in final states with two leptons in TeV collisions with the ATLAS detector. <i>European Physical Journal C</i> , 2017 , 77, 898	4.2	19
213	Study of the material of the ATLAS inner detector for Run 2 of the LHC. <i>Journal of Instrumentation</i> , 2017 , 12, P12009-P12009	1	19
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209	Charged-particle distributions in interactions at [Formula: see text] measured with the ATLAS detector. <i>European Physical Journal C</i> , 2016 , 76, 403	4.2	19
208	Search for pair production of heavy vectorlike quarks decaying into hadronic final states in pp collisions at s=13 TeV with the ATLAS detector. <i>Physical Review D</i> , 2018 , 98,	4.9	19
207	Measurement of three-jet production cross-sections in [Formula: see text] collisions at 7[Formula: see text] centre-of-mass energy using the ATLAS detector. <i>European Physical Journal C</i> , 2015 , 75, 228	4.2	18
206	Search for High-Mass Resonances Decaying to γ in pp Collisions at sqrt[s]=13 TeV with the ATLAS Detector. <i>Physical Review Letters</i> , 2018 , 120, 161802	7.4	18
205	Measurement of jet charge in dijet events from s=8 TeV pp collisions with the ATLAS detector. <i>Physical Review D</i> , 2016 , 93,	4.9	18
204	Observation of top-quark pair production in association with a photon and measurement of the tt production cross section in pp collisions at s=7 TeV using the ATLAS detector. <i>Physical Review D</i> , 2015 , 91,	4.9	18
203	Search for New Phenomena in Dijet Angular Distributions in Proton-Proton Collisions at sqrt[s]=8 TeV Measured with the ATLAS Detector. <i>Physical Review Letters</i> , 2015 , 114, 221802	7.4	18
202	Search for a Heavy Neutral Particle Decaying to eγ or γ in pp Collisions at sqrt[s]=8 TeV with the ATLAS Detector. <i>Physical Review Letters</i> , 2015 , 115, 031801	7.4	18
201	Measurement of the forward-backward asymmetry of electron and muon pair-production in pp collisions at (sqrt{s}=7) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2015 , 2015, 1	5.4	18
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199	Search for metastable heavy charged particles with large ionisation energy loss in collisions at [Formula: see text] TeV using the ATLAS experiment. <i>European Physical Journal C</i> , 2015 , 75, 407	4.2	18
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196	Search for new resonances decaying to a W or Z boson and a Higgs boson in the $\bar{b}b\bar{b}$, $b\bar{b}b$, and $b\bar{b}\bar{b}$ channels with pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2017 , 765, 32-52	4.2	17
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192	Search for squarks and gluinos in events with an isolated lepton, jets, and missing transverse momentum at $\sqrt{s}=13$ TeV with the ATLAS detector. <i>Physical Review D</i> , 2017 , 96,	4.9	17
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181	Identification and rejection of pile-up jets at high pseudorapidity with the ATLAS detector. <i>European Physical Journal C</i> , 2017 , 77, 580	4.2	16
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179	Search for photonic signatures of gauge-mediated supersymmetry in 8 TeV pp collisions with the ATLAS detector. <i>Physical Review D</i> , 2015 , 92,	4.9	16
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177	Measurement of the charge asymmetry in dileptonic decays of top quark pairs in pp collisions at $(\sqrt{s}=7)$ TeV using the ATLAS detector. <i>Journal of High Energy Physics</i> , 2015 , 2015, 1	5.4	16
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151	Measurement of colour flow with the jet pull angle in $t\bar{t}$ events using the ATLAS detector at $\sqrt{s}=8\text{TeV}$. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2015 , 750, 475-493	4.2	14
150	Study of (W/Z)H production and Higgs boson couplings using $H\rightarrow W^*W^*\rightarrow 4\ell$ decays with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2015 , 2015, 1	5.4	14
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147	Combined measurement of differential and total cross sections in the $H\rightarrow b\bar{b}$ and the $H\rightarrow ZZ^*\rightarrow 4\ell$ decay channels at $\sqrt{s}=13\text{ TeV}$ with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2018 , 786, 114-133	4.2	14
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139	Search for new phenomena in events with a photon and missing transverse momentum in pp collisions at $(\sqrt{s}=13\text{ TeV})$ with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1	5.4	13
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132	Measurement of forward-backward multiplicity correlations in lead-lead, proton-lead, and proton-proton collisions with the ATLAS detector. <i>Physical Review C</i> , 2017 , 95,	2.7	13
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126	Jet-based measurements of Sivers and Collins asymmetries at the future electron-ion collider. <i>Physical Review D</i> , 2020 , 102,	4.9	12

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124	Measurement of the production cross-section of a single top quark in association with a W boson at 8 TeV with the ATLAS experiment. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1	5.4	12
123	Search for strong gravity in multijet final states produced in pp collisions at ($\sqrt{s}=13$) TeV using the ATLAS detector at the LHC. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1	5.4	12
122	Probing lepton flavour violation via neutrinoless [Formula: see text] decays with the ATLAS detector. <i>European Physical Journal C</i> , 2016 , 76, 232	4.2	12
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120	Measurements of $t\bar{t}$ differential cross-sections of highly boosted top quarks decaying to all-hadronic final states in pp collisions at $\sqrt{s}=13$ TeV using the ATLAS detector. <i>Physical Review D</i> , 2018 , 98,	4.9	12
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117	Measurement of the cross-section for electroweak production of dijets in association with a Z 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> , 2017 , 775, 206-228	4.2	12
116	Measurement of the inclusive jet cross-sections in proton-proton collisions at ($\sqrt{s}=8$) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1	5.4	12
115	Measurements of top-quark pair differential cross-sections in the lepton+jets channel in pp collisions at ($\sqrt{s}=13$) TeV using the ATLAS detector. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1	5.4	12
114	Search for top quark decays $t \rightarrow bH$, with $H \rightarrow \mu\mu$ in ($\sqrt{s}=13$) TeV pp collisions using the ATLAS detector. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1	5.4	12
113	Measurements of top quark spin observables in ($\overline{t}t$) events using dilepton final states in ($\sqrt{s}=8$) TeV pp collisions with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1	5.4	12
112	Search for new resonances in events with one lepton and missing 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> , 2016 , 762, 334-352	4.2	12
111	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
110	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
109	Direct top-quark decay width measurement in the lepton+jets channel at with the ATLAS experiment. <i>European Physical Journal C</i> , 2018 , 78, 129	4.2	11
108	Measurement of the charge asymmetry in highly boosted top-quark pair production in $\sqrt{s}=8$ TeV pp collision data collected by the ATLAS experiment. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2016 , 756, 52-71	4.2	11

107	Measurement of lepton differential distributions and the top quark mass in production in collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2017 , 77, 804	4.2	11
106	Probing the W tb vertex structure in t-channel single-top-quark production and decay in pp collisions at $(\sqrt{s}=8)$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1	5.4	11
105	Search for dark matter in association with a Higgs boson decaying to two photons at $\sqrt{s}=13$ TeV with the ATLAS detector. <i>Physical Review D</i> , 2017 , 96,	4.9	11
104	Study of and production in collisions at and search for anomalous quartic gauge couplings with the ATLAS experiment. <i>European Physical Journal C</i> , 2017 , 77, 646	4.2	11
103	Search for TeV-scale gravity signatures in high-mass final states with leptons and jets with the ATLAS detector at $\sqrt{s}=13$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2016 , 760, 520-537	4.2	11
102	Search for photonic signatures of gauge-mediated supersymmetry in 13 TeV pp collisions with the ATLAS detector. <i>Physical Review D</i> , 2018 , 97,	4.9	11
101	Measurements of integrated and differential cross sections for isolated photon pair production in pp collisions at $\sqrt{s}=8$ TeV with the ATLAS detector. <i>Physical Review D</i> , 2017 , 95,	4.9	10
100	Measurement of the cross-section for producing a W boson in association with a single top quark in pp collisions at $(\sqrt{s}=13)$ TeV with ATLAS. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	10
99	Measurement of differential cross sections of isolated-photon plus heavy-flavour jet production in pp collisions at $\sqrt{s}=8$ TeV using the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2018 , 776, 295-317	4.2	10
98	Measurement of the cross section for isolated-photon plus jet 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> , 2018 , 780, 578-602	4.2	10
97	Measurement of the correlation between the polar angles of leptons from top quark decays in the helicity basis at $\sqrt{s}=7$ TeV using the ATLAS detector. <i>Physical Review D</i> , 2016 , 93,	4.9	10
96	A search for top squarks with R-parity-violating decays to all-hadronic final states with the ATLAS detector in $(\sqrt{s}=8)$ TeV proton-proton collisions. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1	5.4	10
95	Measurement of the CP-violating phase ϕ_1 and the B^0 meson decay width difference with $B^0 \rightarrow \pi^0 \pi^0$ decays in ATLAS. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1	5.4	10
94	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
93	Measurement of detector-corrected observables sensitive to the anomalous production of events with jets and large missing transverse momentum in collisions at $\sqrt{s}=13$ TeV using the ATLAS detector. <i>European Physical Journal C</i> , 2017 , 77, 765	4.2	10
92	Measurement of the cross section of high transverse momentum $Z \rightarrow b\bar{b}$ production in proton-proton collisions at $\sqrt{s}=8$ TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2014 , 738, 25-43	4.2	10
91	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
90	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

89	Search for R-parity-violating supersymmetric particles in multi-jet final states produced in $p\bar{p}$ collisions at $\sqrt{s}=13$ TeV using the ATLAS detector at the LHC. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2018 , 785, 136-158	4.2	10
88	Exploration of jet substructure using iterative declustering in pp and PbPb collisions at LHC energies. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2020 , 802, 135227	4.2	9
87	Measurement of the dependence of transverse energy production at large pseudorapidity on the hard-scattering kinematics of proton-proton collisions at $\sqrt{s}=2.76$ TeV with ATLAS. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2016 , 756, 10-28	4.2	9
86	Measurement of the ZZ production cross section in proton-proton collisions at ($\sqrt{s}=8$) TeV using the ZZ $\rightarrow \mu^+\mu^-$ and (ZZto $\ell\ell^+\ell\ell^+\nu$) decay channels with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1	5.4	9
85	Measurement of charged-particle distributions sensitive to the underlying event in ($\sqrt{s}=13$) TeV proton-proton collisions with the ATLAS detector at the LHC. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1	5.4	9
84	Measurement of the branching ratio $\mathcal{B}(B \rightarrow \tau S)/\mathcal{B}(B \rightarrow b/\tau)$ with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2015 , 751, 63-80	4.2	9
83	Search for supersymmetry in events with large missing transverse momentum, jets, and at least one tau lepton in 20 fb $^{-1}$ of (\sqrt{s}) = 8 TeV proton-proton collision data with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2014 , 2014, 1	5.4	9
82	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
81	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
80	Measurement of W boson angular distributions in events with high transverse momentum jets at $\sqrt{s}=8$ TeV using the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2017 , 765, 132-153	4.2	8
79	Beam-induced and cosmic-ray backgrounds observed in the ATLAS detector during the LHC 2012 proton-proton running period. <i>Journal of Instrumentation</i> , 2016 , 11, P05013-P05013	1	8
78	Search for new phenomena in events containing a same-flavour opposite-sign dilepton pair, jets, and large missing transverse momentum in [Formula: see text][Formula: see text][Formula: see text] collisions with the ATLAS detector. <i>European Physical Journal C</i> , 2017 , 77, 144	4.2	8
77	Search for new phenomena with large jet multiplicities and missing transverse momentum using large-radius jets and flavour-tagging at ATLAS in 13 TeV pp collisions. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1	5.4	8
76	Measurement of the top-quark mass in the fully hadronic decay channel from ATLAS data at [Formula: see text]. <i>European Physical Journal C</i> , 2015 , 75, 158	4.2	8
75	Inclusive J/ ψ production at mid-rapidity in pp collisions at (\sqrt{s}) = 5.02 TeV. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1	5.4	8
74	Search for the Standard Model Higgs boson produced by vector-boson fusion and decaying to bottom quarks in ($\sqrt{s}=8$) TeV pp collisions with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1	5.4	8
73	Detailed studies of full-size ATLAS12 sensors. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2016 , 831, 167-173	1.2	8
72	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

71	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
70	Search for $B\bar{B}$ R-parity-violating top squarks in $\sqrt{s}=13$ TeV pp collisions with the ATLAS experiment. <i>Physical Review D</i> , 2018 , 97,	4.9	8
69	Measurement of the $W+W\bar{W}$ production cross section in pp collisions at a centre-of-mass energy of $\sqrt{s}=13$ TeV with the ATLAS experiment. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2017 , 773, 354-374	4.2	7
68	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
67	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
66	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
65	A measurement of material in the ATLAS tracker using secondary hadronic interactions in 7 TeV pp collisions. <i>Journal of Instrumentation</i> , 2016 , 11, P11020-P11020	1	7
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63	Measurement of the production cross section of three isolated photons in pp collisions at $\sqrt{s}=8$ TeV using the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2018 , 781, 55-76	4.2	7
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61	Measurement of differential cross sections and $W+/W\bar{W}$ cross-section ratios for W boson production in association with jets at $(\sqrt{s}=8)$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	7
60	Measurement of the $(\overline{t}t\gamma)$ production cross section in proton-proton collisions at $(\sqrt{s}=8)$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1	5.4	7
59	Measurements of top-quark pair to Z-boson cross-section ratios at $(\sqrt{s}=13)$, 8, 7 TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1	5.4	7
58	Search for direct top squark pair production in events with a Higgs or Z boson, and missing transverse momentum in $(\sqrt{s}=13)$ TeV pp collisions with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1	5.4	7
57	Search for new phenomena in a lepton plus high jet multiplicity final state with the ATLAS experiment using $(\sqrt{s}=13)$ TeV proton-proton collision data. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1	5.4	7
56	Studies of $Z\bar{W}$ production in association with a high-mass dijet system in pp collisions at $(\sqrt{s}=8)$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1	5.4	7
55	Analysis of the Wtb vertex from the measurement of triple-differential angular decay rates of single top quarks produced in the t-channel at $(\sqrt{s}=8)$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1	5.4	7
54	Performance of the ATLAS Transition Radiation Tracker in Run 1 of the LHC: tracker properties. <i>Journal of Instrumentation</i> , 2017 , 12, P05002-P05002	1	7

53	Multiplicity dependence of $K^*(892)^0$ and $\phi(1020)$ production in pp collisions at $\sqrt{s}=13$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2020 , 807, 135501	4.2	7
52	Measurement of the [Formula: see text] dijet cross section in collisions at [Formula: see text] TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2016 , 76, 670	4.2	7
51	Search for new phenomena in different-flavour high-mass dilepton final states in collisions at [Formula: see text] TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2016 , 76, 541	4.2	7
50	Search for direct top squark pair production in final states with two tau leptons in collisions at [Formula: see text] TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2016 , 76, 81	4.2	7
49	Search for lepton-flavor violation in different-flavor, high-mass final states in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. <i>Physical Review D</i> , 2018 , 98,	4.9	7
48	A search for resonances decaying into a Higgs boson and a new particle X in the $XH\text{-}b\bar{b}$ final state with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2018 , 779, 24-45	4.2	6
47	A new method to distinguish hadronically decaying boosted bosons from bosons using the ATLAS detector. <i>European Physical Journal C</i> , 2016 , 76, 238	4.2	6
46	Measurements of charge and CP asymmetries in b-hadron decays using top-quark events collected by the ATLAS detector in pp collisions at ($\sqrt{s}=8$) TeV. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1	5.4	6
45	Top-quark mass measurement in the all-hadronic ($t\bar{t}$) decay channel at ($\sqrt{s}=8$) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1	5.4	6
44	Search for top squarks decaying to tau sleptons in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. <i>Physical Review D</i> , 2018 , 98,	4.9	6
43	Measurement of jet activity produced in top-quark events with an electron, a muon and two -tagged jets in the final state in collisions at [Formula: see text] TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2017 , 77, 220	4.2	5
42	On the jets emitted by driven Bose-Einstein condensates. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2019 , 52, 055301	1.3	5
41	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
40	ϕ production in pPb collisions at $\sqrt{s_{NN}}=8.16$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2020 , 806, 135486	4.2	5
39	Measurement of differential cross-sections of a single top quark produced in association with a boson at with ATLAS. <i>European Physical Journal C</i> , 2018 , 78, 186	4.2	5
38	Search for Higgs and Z Boson Decays to ϕ with the ATLAS Detector. <i>Physical Review Letters</i> , 2016 , 117, 111802	7.4	5
37	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
36	Measurement of b-hadron pair production with the ATLAS detector in proton-proton collisions at ($\sqrt{s}=8$) TeV. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1	5.4	5

35	Measurements of the top quark branching ratios into channels with leptons and quarks with the ATLAS detector. <i>Physical Review D</i> , 2015 , 92,	4.9	5
34	Measurement of four-jet differential cross sections in ($\sqrt{s}=8$) TeV proton-proton collisions using the ATLAS detector. <i>Journal of High Energy Physics</i> , 2015 , 2015, 1-76	5.4	5
33	Measurement of event-shape observables in [Formula: see text] events in collisions at [Formula: see text][Formula: see text] with the ATLAS detector at the LHC. <i>European Physical Journal C</i> , 2016 , 76, 375	4.2	5
32	Measurement of the relative width difference of the ($\{B\}^0\overline{\{B\}}^0$) system with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1	5.4	5
31	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
30	Measurement of colour flow using jet-pull observables in events with the ATLAS experiment at. <i>European Physical Journal C</i> , 2018 , 78, 847	4.2	5
29	Search for lepton-flavor-violating decays of the Z boson into a lepton and a light lepton with the ATLAS detector. <i>Physical Review D</i> , 2018 , 98,	4.9	5
28	Measurement of the inclusive and fiducial production cross-sections in the lepton+jets channel in collisions at with the ATLAS detector. <i>European Physical Journal C</i> , 2018 , 78, 487	4.2	5
27	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
26	Measurement of jet activity in top quark events using the $e\ell$ final state with two b-tagged jets in pp collisions at ($\sqrt{s}=8$) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1	5.4	4
25	Measurements of the charge asymmetry in top-quark pair production in the dilepton final state at $\sqrt{s}=8$ TeV with the ATLAS detector. <i>Physical Review D</i> , 2016 , 94,	4.9	4
24	Combination of inclusive and differential ($\overline{\mathrm{t}}\mathrm{t}$) charge asymmetry measurements using ATLAS and CMS data at ($\sqrt{s}=7$) and 8 TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	4
23	Charm jets as a probe for strangeness at the future Electron-Ion Collider. <i>Physical Review D</i> , 2021 , 103,	4.9	4
22	Measurement of dijet azimuthal decorrelations in pp collisions at $\sqrt{s}=8$ TeV with the ATLAS detector and determination of the strong coupling. <i>Physical Review D</i> , 2018 , 98,	4.9	4
21	Search for the standard model Higgs boson produced in association with a vector boson and decaying into a tau pair in pp collisions at $\sqrt{s}=8$ TeV with the ATLAS detector. <i>Physical Review D</i> , 2016 , 93,	4.9	3
20	Measurement of polarisation in decays in proton-proton collisions at TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2018 , 78, 163	4.2	3
19	Measurement of the k_t splitting scales in $Z\rightarrow\ell\ell$ events in pp collisions at ($\sqrt{s}=8$) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1	5.4	3
18	Study of the spin and parity of the Higgs boson in diboson decays with the ATLAS detector 2015 , 75, 1		3

17	ATLAS Run 1 searches for direct pair production of third-generation squarks at the Large Hadron Collider 2015 , 75, 1		3
16	Measurement of $W+W\bar{\nu}$ production in association with one jet in proton-proton collisions at $\sqrt{s}=8\text{TeV}$ with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2016 , 763, 114-133	4.2	3
15	Measurement of charged jet cross section in pp collisions at $\sqrt{s}=5.02\text{ TeV}$. <i>Physical Review D</i> , 2019 , 100,	4.9	3
14	Pseudorapidity distributions of charged particles as a function of mid- and forward rapidity multiplicities in pp collisions at $(\sqrt{s}) = 5.02, 7$ and 13 TeV . <i>European Physical Journal C</i> , 2021 , 81, 1	4.2	3
13	η production and nuclear modification at forward rapidity in Pb-Pb collisions at $\sqrt{s_{NN}}=5.02\text{TeV}$. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2021 , 822, 136579	4.2	3
12	Search for low-scale gravity signatures in multi-jet final states with the ATLAS detector at $(\sqrt{s}=8\text{ TeV})$. <i>Journal of High Energy Physics</i> , 2015 , 2015, 1	5.4	2
11	Publishing unbinned differential cross section results. <i>Journal of Instrumentation</i> , 2022 , 17, P01024	1	2
10	Comparison between simulated and observed LHC beam backgrounds in the ATLAS experiment at $E_{\text{beam}}=4\text{ TeV}$. <i>Journal of Instrumentation</i> , 2018 , 13, P12006-P12006	1	2
9	Production of pions, kaons, (anti-)protons and (ϕ) mesons in Xe-Xe collisions at $(\sqrt{s_{\text{NN}}}) = 5.44\text{ TeV}$. <i>European Physical Journal C</i> , 2021 , 81, 1	4.2	2
8	A search for an excited muon decaying to a muon and two jets in pp collisions at $\sqrt{s}=8\text{TeV}$ with the ATLAS detector. <i>New Journal of Physics</i> , 2016 , 18, 073021	2.9	1
7	Measurement of the $t\bar{t}$ production cross section in the $\ell\bar{\ell}$ jets final state in pp collisions at $\sqrt{s}=8\text{ TeV}$ using the ATLAS detector. <i>Physical Review D</i> , 2017 , 95,	4.9	1
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1	First measurement of quarkonium polarization in nuclear collisions at the LHC. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2021 , 815, 136146	4.2	0