Carlos Lacasta

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62 637 18,796 102 h-index g-index citations papers 685 21,727 4.1 3.45 avg, IF L-index ext. citations ext. papers

#	Paper	IF	Citations
637	The ATLAS Simulation Infrastructure. European Physical Journal C, 2010 , 70, 823-874	4.2	817
636	Improved luminosity determination in collisions at [Formula: see text] using the ATLAS detector at the LHC. <i>European Physical Journal C</i> , 2013 , 73, 2518	4.2	276
635	Performance of the ATLAS trigger system in 2015. European Physical Journal C, 2017, 77, 317	4.2	272
634	Muon reconstruction performance of the ATLAS detector in proton-proton collision data at [Formula: see text]=13[TeV. <i>European Physical Journal C</i> , 2016 , 76, 292	4.2	263
633	Performance of the ATLAS Trigger System in 2010. European Physical Journal C, 2012 , 72, 1	4.2	232
632	Performance of missing transverse momentum reconstruction in proton-proton collisions at $(sqrt\{s\} = 7 \sim Mox\{TeV\})$ with ATLAS. <i>European Physical Journal C</i> , 2012 , 72, 1	4.2	217
631	Jet energy measurement with the ATLAS detector in proton-proton collisions at (sqrt{mathrm{s}}=7 mathrm{TeV}). European Physical Journal C, 2013 , 73, 1	4.2	209
630	Search for new phenomena in final states with an energetic jet and large missing transverse momentum in collisions at [Formula: see text]TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2015 , 75, 299	4.2	202
629	Electron performance measurements with the ATLAS detector using the 2010 LHC proton-proton collision data. <i>European Physical Journal C</i> , 2012 , 72, 1	4.2	199
628	Jet energy measurement and its systematic uncertainty in proton-proton collisions at [Formula: see text] TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2015 , 75, 17	4.2	194
627	Luminosity determination in collisions at [Formula: see text] = 8 TeV using the ATLAS detector at the LHC. <i>European Physical Journal C</i> , 2016 , 76, 653	4.2	188
626	Measurements of the Higgs boson production and decay rates and coupling strengths using collision data at [Formula: see text] and 8 TeV in the ATLAS experiment. <i>European Physical Journal C</i> , 2016 , 76, 6	4.2	185
625	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
624	Luminosity determination in pp collisions at $(sqrt\{s\} = 7)$ TeV using the ATLAS detector at the LHC. European Physical Journal C, 2011 , 71, 1	4.2	167
623	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
622	Electron reconstruction and identification efficiency measurements with the ATLAS detector using the 2011 LHC proton-proton collision data. <i>European Physical Journal C</i> , 2014 , 74, 2941	4.2	160
621	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

620	Jet energy resolution in proton-proton collisions at [Formula: see text] recorded in 2010 with the ATLAS detector. <i>European Physical Journal C</i> , 2013 , 73, 2306	4.2	153
619	Search for an additional, heavy Higgs boson in the [Formula: see text] decay channel at [Formula: see text] in [Formula: see text] collision data with the ATLAS detector. <i>European Physical Journal C</i> , 2016 , 76, 45	4.2	152
618	Performance of pile-up mitigation techniques for jets in [Formula: see text] collisions at [Formula: see text] TeV using the ATLAS detector. <i>European Physical Journal C</i> , 2016 , 76, 581	4.2	148
617	Measurement of the distributions of event-by-event flow harmonics in lead-lead collisions at (sqrt{{{s_{NN }}}}) = 2.76 TeV with the ATLAS detector at the LHC. <i>Journal of High Energy Physics</i> , 2013 , 2013, 1	5.4	143
616	Measurement of the top quark-pair production cross section with ATLAS in pp collisions at (sqrt{s}=7) TeV. <i>European Physical Journal C</i> , 2011 , 71, 1	4.2	138
615	Search for new high-mass phenomena in the dilepton final state using 36 fb[] 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
614	Search for dark matter candidates and large extra dimensions in events with a jet and missing transverse momentum with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2013 , 2013, 1	5.4	124
613	Search for direct production of charginos, neutralinos and sleptons in final states with two leptons and missing transverse momentum in pp collisions at (sqrt{s}) = 8TeV with the ATLAS detector. Journal of High Energy Physics, 2014, 2014, 1	5.4	120
612	Search for charged Higgs bosons decaying via H \oplus - $rac{1}{2}$ In (toverline t) events using pp collision data at (sqrt {s} = 7;TeV) with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2012 , 2012, 1	5.4	112
611	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
610	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
609	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
608	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
607	Search for doubly charged Higgs bosons in like-sign dilepton final states at $(sqrt\{s\} = 7 mathrm\{TeV\})$ with the ATLAS detector. <i>European Physical Journal C</i> , 2012 , 72, 1	4.2	104
606	Measurement of inclusive jet and dijet cross sections in proton-proton collisions at 7 TeV centre-of-mass energy with the ATLAS detector. <i>European Physical Journal C</i> , 2011 , 71, 1	4.2	103
605	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
604	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. European Physical Journal C, 2015, 75, 349	4.2	94
603	Effects of different management practices on soil conservation and soil water in a rainfed olive orchard. <i>Agricultural Water Management</i> , 2005 , 77, 232-248	5.9	94

602	Search for direct third-generation squark pair production in final states with missing transverse momentum and two b-jets in (sqrt{s}=8) TeV pp collisions with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2013 , 2013, 1	5.4	92
601	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
600	Design and performance of the ABCD3TA ASIC for readout of silicon strip detectors in the ATLAS semiconductor tracker. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2005 , 552, 292-328	1.2	83
599	Measurement of [Formula: see text] production with a veto on additional central jet activity in collisions at [Formula: see text] TeV using the ATLAS detector. <i>European Physical Journal C</i> , 2012 , 72, 2043	4.2	82
598	Readiness of the ATLAS Tile Calorimeter for LHC collisions. European Physical Journal C, 2010, 70, 1193-	1236	82
597	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
596	Measurement of the Z/IP 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
595	Measurement of the charge asymmetry in top quark pair production in collisions at [Formula: see text] using the ATLAS detector. <i>European Physical Journal C</i> , 2012 , 72, 2039	4.2	78
594	Search for heavy neutrinos and right-handed bosons in events with two leptons and jets in collisions at [Formula: see text] with the ATLAS detector. <i>European Physical Journal C</i> , 2012 , 72, 2056	4.2	78
593	Search for direct production of charginos and neutralinos in events with three leptons 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	76
592	Search for a light charged Higgs boson in the decay channel [Formula: see text] in [Formula: see text] events using collisions at [Formula: see text] with the ATLAS detector. <i>European Physical Journal C</i> , 2013 , 73, 2465	4.2	76
591	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
590	Search for production of [Formula: see text] resonances decaying to a lepton, neutrino and jets in [Formula: see text] Collisions at [Formula: see text] With the ATLAS detector. European Physical Journal C, 2015, 75, 209	4.2	73
589	Measurement of the inclusive jet cross-section in collisions at [Formula: see text] and comparison to the inclusive jet cross-section at [Formula: see text] using the ATLAS detector. <i>European Physical Journal C</i> , 2013 , 73, 2509	4.2	71
588	Rapidity gap cross sections measured with the ATLAS detector in pp collisions at $(sqrt\{s\} = 7 mbox\{\sim TeV\})$. European Physical Journal C, 2012 , 72, 1	4.2	70
587	The ATLAS Inner Detector commissioning and calibration. <i>European Physical Journal C</i> , 2010 , 70, 787-82	1 4.2	70
586	Searches for scalar leptoquarks in collisions at [Formula: see text] = 8[TeV with the ATLAS detector. European Physical Journal C, 2016 , 76, 5	4.2	68
585	Search for neutral Higgs bosons of the minimal supersymmetric standard model in pp collisions at (sqrt{s}=8) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2014 , 2014, 1	5.4	67

584	Jet mass and substructure of inclusive jets in (sqrt {s} = 7;{text{TeV}}) pp collisions with the ATLAS experiment. <i>Journal of High Energy Physics</i> , 2012 , 2012, 1	5.4	67
583	Search for Higgs boson pair production in the [Formula: see text] final state from collisions at [Formula: see text] TeVwith the ATLAS detector. <i>European Physical Journal C</i> , 2015 , 75, 412	4.2	66
582	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
581	Performance of missing transverse momentum reconstruction with the ATLAS detector using proton-proton collisions at. <i>European Physical Journal C</i> , 2018 , 78, 903	4.2	66
580	Search for heavy Majorana neutrinos with the ATLAS detector in pp collisions at (sqrt{s}=8) TeV. Journal of High Energy Physics, 2015 , 2015, 1	5.4	65
579	Search for the (boverline{b}) 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
578	Search for new phenomena in final states with large jet multiplicities and missing transverse momentum at (sqrt{s}=8) TeV proton-proton collisions using the ATLAS experiment. <i>Journal of High Energy Physics</i> , 2013 , 2013, 1	5.4	64
577	Measurement of the transverse momentum and [Formula: see text] distributions of Drell-Yan lepton pairs in proton-proton collisions at [Formula: see text] TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2016 , 76, 291	4.2	63
576	The barrel modules of the ATLAS semiconductor tracker. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2006 , 568, 642-671	1.2	63
575	Search for resonant diboson production in the [Formula: see text] final state in [Formula: see text] collisions at [Formula: see text] TeV with the ATLAS detector. European Physical Journal C, 2015, 75, 69	4.2	62
574	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
573	Search for dark matter in events with heavy quarks and missing transverse momentum in [Formula: see text] collisions with the ATLAS detector. <i>European Physical Journal C</i> , 2015 , 75, 92	4.2	60
572	Measurement of the -boson mass in pp collisions at with the ATLAS detector. <i>European Physical Journal C</i> , 2018 , 78, 110	4.2	59
57 ¹	Development of n-on-p silicon sensors for very high radiation environments. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2011 , 636, S24-S30	1.2	59
570	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
569	Measurement of the W - $\frac{1}{2}$ and Z/I $\frac{1}{2}$ - $\frac{1}{2}$ roduction cross sections in proton-proton collisions at (sqrt {s} = 7;{text{TeV}}) with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2010 , 2010, 1	5.4	58
568	A search for (toverline{t}) 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
567	Search for charged Higgs bosons decaying via H \oplus - \boxplus 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

566	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
565	Precision measurement and interpretation of inclusive, and production cross sections with the ATLAS detector. <i>European Physical Journal C</i> , 2017 , 77, 367	4.2	56
564	The ATLAS semiconductor tracker end-cap module. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2007 , 575, 353-38	9 ^{1.2}	56
563	Search for doubly charged Higgs boson production in multi-lepton final states with the ATLAS detector using proton-proton collisions at. <i>European Physical Journal C</i> , 2018 , 78, 199	4.2	55
562	Search for resonances decaying into top-quark pairs using fully hadronic decays in pp collisions with ATLAS at (sqrt{s}=7) TeV. <i>Journal of High Energy Physics</i> , 2013 , 2013, 1	5.4	55
561	Measurements of top quark pair relative differential cross-sections with ATLAS in pp collisions at $(sqrt\{s\} = 7 \text{ mbox}\{TeV\})$. European Physical Journal C, 2013 , 73, 1	4.2	55
560	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
559	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
558	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
557	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
556	Measurement of W \oplus Z production in proton-proton collisions at (sqrt{s}=7~mbox{TeV}) with the ATLAS detector. <i>European Physical Journal C</i> , 2012 , 72, 1	4.2	54
555	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
554	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
553	Search for a heavy top-quark partner in final states with two leptons with the ATLAS detector at the LHC. <i>Journal of High Energy Physics</i> , 2012 , 2012, 1	5.4	53
552	Measurement of the inclusive and dijet cross-sections of b-jets in pp collisions at (sqrt{s}=7mbox{~TeV}) with the ATLAS detector. <i>European Physical Journal C</i> , 2011 , 71, 1	4.2	53
551	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
550	Search for direct top-squark pair production in final states with two leptons in pp collisions at ($sqrt{s}$) = 8 TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2014 , 2014, 1	5.4	52
549	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

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548	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
547	Measurement of flow harmonics with multi-particle cumulants in Pb+Pb collisions at [Formula: see text] TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2014 , 74, 3157	4.2	52
546	Measurement of the W boson polarization in top quark decays with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2012 , 2012, 1	5.4	52
545	Performance of the ATLAS muon trigger in pp collisions at [Formula: see text] TeV. <i>European Physical Journal C</i> , 2015 , 75, 120	4.2	51
544	Measurement of the jet fragmentation function and transverse profile in protonproton collisions at a center-of-mass energy of 7 TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2011 , 71, 1	4.2	51
543	Measurement of the production cross section of jets in association with a Z boson in pp collisions at (sqrt{s}=7) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2013 , 2013, 1	5.4	50
542	Evidence for the (Hto boverline{b}) decay with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1	5.4	50
541	Search for direct pair production of a chargino and a neutralino decaying to the 125 GeV Higgs boson in [Formula: see text] TeV [Formula: see text] collisions with the ATLAS detector. <i>European Physical Journal C</i> , 2015 , 75, 208	4.2	50
540	Identification and energy calibration of hadronically decaying tau leptons with the ATLAS experiment in collisions at [Formula: see text][Formula: see text]. <i>European Physical Journal C</i> , 2015 , 75, 303	4.2	49
539	Measurement of charged-particle spectra in Pb+Pb collisions at (sqrt{s_{mathrm{NN}}}=2.76) TeV with the ATLAS detector at the LHC. <i>Journal of High Energy Physics</i> , 2015 , 2015, 1	5.4	49
538	Search for high-mass resonances decaying to dilepton final states in pp collisions at (sqrt{s}=7) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2012 , 2012, 1	5.4	49
537	The silicon microstrip sensors of the ATLAS semiconductor tracker. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2007 , 578, 98-118	1.2	49
536	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
535	Search for electroweak production of supersymmetric particles in final states with two or three leptons at with the ATLAS detector. <i>European Physical Journal C</i> , 2018 , 78, 995	4.2	49
534	Measurements of top-quark pair differential cross-sections in the lepton+jets channel in collisions at [Formula: see text] using the ATLAS detector. <i>European Physical Journal C</i> , 2016 , 76, 538	4.2	48
533	Search for supersymmetry at [Formula: see text] 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
532	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
531	Hunt for new phenomena using large jet multiplicities and missing transverse momentum with ATLAS in 4.7 fb[] of (sqrt {s} = 7;TeV) proton-proton collisions. <i>Journal of High Energy Physics</i> , 2012 2012 1	5.4	48

530	Search for long-lived charginos based on a disappearing-track signature in pp collisions at (sqrt{s}=13) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	48
529	Measurement of the prompt /[Formula: see text] pair production cross-section in collisions at [Formula: see text] TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2017 , 77, 76	4.2	47
528	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
527	Search for the neutral Higgs bosons of the minimal supersymmetric standard model in pp collisions at (sqrt{s}=7) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2013 , 2013, 1	5.4	47
526	Characterization of a PET detector head based on continuous LYSO crystals and monolithic, 64-pixel silicon photomultiplier matrices. <i>Physics in Medicine and Biology</i> , 2010 , 55, 7299-315	3.8	47
525	Search for a new resonance decaying to a or boson and a Higgs boson in the [Formula: see text] final states with the ATLAS detector. <i>European Physical Journal C</i> , 2015 , 75, 263	4.2	46
524	Light-quark and gluon jet discrimination in [Formula: see text] collisions at [Formula: see text] with the ATLAS detector. <i>European Physical Journal C</i> , 2014 , 74, 3023	4.2	46
523	Search for lepton-flavour-violating H -됬ecays of the Higgs boson with the ATLAS detector. Journal of High Energy Physics, 2015 , 2015, 1	5.4	46
522	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
521	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
520	Measurement of ZZ production in pp collisions at (sqrt{s}=7) TeV and limits on anomalous ZZZ and ZZIŁouplings with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2013 , 2013, 1	5.4	45
519	Muon reconstruction efficiency and momentum resolution of the ATLAS experiment in proton-proton collisions at [Formula: see text][TeV in 2010. European Physical Journal C, 2014, 74, 3034	4.2	45
518	Search for pair production of massive particles decaying into three quarks with the ATLAS detector in (sqrt{s}=7;mathrm{TeV}) pp collisions at the LHC. <i>Journal of High Energy Physics</i> , 2012 , 2012, 1	5.4	45
517	Search for supersymmetry in events containing a same-flavour opposite-sign dilepton pair, jets, and large missing transverse momentum in [Formula: see text] TeV collisions with the ATLAS detector. <i>European Physical Journal C</i> , 2015 , 75, 318	4.2	44
516	Identification of boosted, hadronically decaying bosons and comparisons with ATLAS data taken at [Formula: see text] TeV. <i>European Physical Journal C</i> , 2016 , 76, 154	4.2	44
515	Measurement of isolated-photon pair production in pp collisions at (sqrt{s}=7;TeV) with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2013 , 2013, 1	5.4	44
514	Search for pair-produced massive coloured scalars in four-jet final states with the ATLAS detector in proton \vec{p} roton collisions at (sqrt{s} = 7 mbox{TeV}). European Physical Journal C, 2013 , 73, 1	4.2	44
513	Measurement of multi-jet cross sections in protonproton collisions at a 7 TeV center-of-mass energy. <i>European Physical Journal C</i> , 2011 , 71, 1	4.2	44

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512	Angular analysis of B 0 d -米+量decays in pp collisions at (sqrt{s}=8) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	44	
511	Performance of jet substructure techniques for large-R jets in proton-proton collisions at (sqrt{s}=7) TeV using the ATLAS detector. <i>Journal of High Energy Physics</i> , 2013 , 2013, 1	5.4	43	
510	Measurement of the cross section for top-quark pair production in pp collisions at (sqrt {s} = {7},{text{TeV}}) with the ATLAS detector using final states with two high-p T leptons. <i>Journal of High Energy Physics</i> , 2012 , 2012, 1	5.4	43	
509	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	
508	Jet reconstruction and performance using particle flow with the ATLAS Detector. <i>European Physical Journal C</i> , 2017 , 77, 466	4.2	42	
507	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 8[TeV with the ATLAS detector. European Physical Journal C, 2016, 76, 283	4.2	42	
506	Measurement of the top quark mass with the template method in the [Formula: see text] channel using ATLAS data. <i>European Physical Journal C</i> , 2012 , 72, 2046	4.2	42	
505	Summary of the ATLAS experiment 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	
504	Search for heavy resonances in the and final states using proton-proton collisions at □with the ATLAS detector. <i>European Physical Journal C</i> , 2018 , 78, 293	4.2	41	
503	Search for direct top squark pair production in events with a [Formula: see text] boson, [Formula: see text]-jets and missing transverse momentum in [Formula: see text] TeV [Formula: see text] collisions with the ATLAS detector. <i>European Physical Journal C</i> , 2014 , 74, 2883	4.2	41	
502	Single hadron response measurement and calorimeter jet energy scale uncertainty with the ATLAS detector at the LHC. <i>European Physical Journal C</i> , 2013 , 73, 1	4.2	41	
501	Search for supersymmetric particles in events with lepton pairs and large missing transverse momentum in (sqrt{s}=7~mbox{TeV}) protonproton collisions with the ATLAS experiment. <i>European Physical Journal C</i> , 2011 , 71, 1	4.2	41	
500	Readiness of the ATLAS liquid argon calorimeter for LHC collisions. <i>European Physical Journal C</i> , 2010 , 70, 723-753	4.2	41	
499	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	
498	Measurement of the centrality dependence of the charged-particle pseudorapidity distribution in proton-lead collisions at [Formula: see text] TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2016 , 76, 199	4.2	39	
497	Search for supersymmetry at $(sqrt\{s\}) = 8$ TeV in final states with jets and two same-sign leptons or three leptons with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2014 , 2014, 1	5.4	39	
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493	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	
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488	First Compton telescope prototype based on continuous LaBr3-SiPM detectors. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2013 , 718, 130-133	1.2	37	
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471	Search for same-sign top-quark production and fourth-generation down-type quarks in pp collisions at (sqrt $\{s\} = \{7\}; \{\text{text}\{\text{TeV}\}\}$) with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2012 , 2012, 1	5.4	34	
470	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	
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467	Performance of MACACO Compton telescope for ion-beam therapy monitoring: first test with proton beams. <i>Physics in Medicine and Biology</i> , 2016 , 61, 5149-65	3.8	33	
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428	Search for minimal supersymmetric standard model Higgs Bosons [][][][][][][][][][][][][][][][][][][]	4.2	28	
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221	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	
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218	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	
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215	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	
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203	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	
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178	Search for a heavy Higgs boson decaying into a Z boson and another heavy Higgs boson in the (ell ell bb) and (ell ell WW) final states in pp collisions at (sqrt{s}=13) (text {TeV}) with the ATLAS detector. European Physical Journal C, 2021, 81, 1	4.2	7
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175	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
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171	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

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161	Measurement of the B 0 d oscillation frequency using kaons, leptons and jet charge. <i>Zeitschrift Fla Physik C-Particles and Fields</i> , 1996 , 72, 17-30		6
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	Elepton in pp collisions at (sqrt{s}) = 13 TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1	5.4	
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146	First PET imaging results with continuous LYSO crystals and monolithic, 64-pixel SiPM matrices 2010 ,		5	
145	Hodoscope coincidence imaging for hadron therapy using a compton camera 2011 ,		5	
144	Development of a PET prototype with continuous LYSO crystals and monolithic SiPM matrices 2011 ,		5	
143	Laser tests of silicon detectors. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment,</i> 2007 , 573, 12-15	1.2	5	
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133	Differential cross-section measurements for the electroweak production of dijets in association with a Z boson in proton p roton collisions at ATLAS. <i>European Physical Journal C</i> , 2021 , 81, 1	4.2	5
132	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
131	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
130	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
129	Measurement of the charge collection in irradiated miniature sensors for the upgrade of the ATLAS phase-II strip tracker. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment,</i> 2019 , 924, 153-159	1.2	4
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121	Alignment of the Pixel and SCT Modules for the 2004 ATLAS Combined Test Beam. <i>Journal of Instrumentation</i> , 2008 , 3, P09004-P09004	1	4
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113	Measurements of differential cross sections of top quark pair production in association with jets in pp collisions at (sqrt{s}=13) TeV using the ATLAS detector. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	4
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105	Engineering for the ATLAS SemiConductor Tracker (SCT) End-cap. <i>Journal of Instrumentation</i> , 2008 , 3, P05002-P05002	1	3
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	1996 , 72, 179-190		
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96	Reconstruction and identification of boosted di-Bystems 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
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80	Simulation study of Resistive-Plate-Chambers based PET for hadron-therapy monitoring 2011,		2
79	Data acquisition system for the readout of SiPM matrix with the VATA64HDR16 front-end ASIC 2011 ,		2
78	Design and fabrication of sensor prototypes for the end-cap tracker of the ATLAS upgrade 2012,		2
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7° 69 68 67 66	First study of the interference between initial and final state radiation at the Z resonance. <i>Zeitschrift Fil Physik C-Particles and Fields</i> , 1996 , 72, 31-38 A measurement of the photon structure functionF II at an averageQ 2 of 12 GeV2/c 4. <i>Zeitschrift Fil Physik C-Particles and Fields</i> , 1995 , 69, 223-233 Search for R-parity-violating supersymmetry in a final state containing leptons and many jets with the ATLAS experiment using (sqrt{s} = 13hbox { TeV}) protonproton collision data. <i>European Physical Journal C</i> , 2021 , 81, 1 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 Optimisation of large-radius jet reconstruction for the ATLAS detector in 13 TeV protonproton collisions. <i>European Physical Journal C</i> , 2021 , 81, 1 Search for supersymmetry in events with four or more charged leptons in 139 fbil of (sqrt{s}) =	4.2 5.4 4.2	2 2 2 2

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