

Shanzhen Chen

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654
papers

24,013
citations

71
h-index

123
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681
ext. papers

28,766
ext. citations

5.1
avg, IF

3.14
L-index

#	Paper	IF	Citations
654	The ATLAS Simulation Infrastructure. <i>European Physical Journal C</i> , 2010 , 70, 823-874	4.2	817
653	Observation of J/ψ Resonances Consistent with Pentaquark States in $B^0 \rightarrow J/\psi p$ Decays. <i>Physical Review Letters</i> , 2015 , 115, 072001	7.4	580
652	Test of lepton universality using $b^+ \rightarrow K^+ \mu^+ \nu$ decays. <i>Physical Review Letters</i> , 2014 , 113, 151601	7.4	542
651	Study of the $B \rightarrow J/\psi K$ decay and measurement of the $B \rightarrow X(3872) K$ branching fraction. <i>Physical Review D</i> , 2005 , 71,	4.9	333
650	Measurement of the ratio of branching fractions $B(B \rightarrow D^{*+} \mu^-) / B(B \rightarrow D^{*+} e^-)$. <i>Physical Review Letters</i> , 2015 , 115, 111803	7.4	316
649	Test of lepton universality with $B^0 \rightarrow K^{*0} \mu^+ \nu$ decays. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1	5.4	298
648	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
647	Performance of the ATLAS trigger system in 2015. <i>European Physical Journal C</i> , 2017 , 77, 317	4.2	272
646	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
645	Observation of the Doubly Charmed Baryon Ω_{cc}^{++} . <i>Physical Review Letters</i> , 2017 , 119, 112001	7.4	257
644	Observation of the resonant character of the $Z(4430)^-$ state. <i>Physical Review Letters</i> , 2014 , 112, 222002	7.4	234
643	The Physics of the B Factories. <i>European Physical Journal C</i> , 2014 , 74, 1	4.2	233
642	Angular analysis of the $B^0 \rightarrow K^{*0} \mu^+ \nu$ decay using 3 fb of integrated luminosity. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1	5.4	232
641	Performance of the ATLAS Trigger System in 2010. <i>European Physical Journal C</i> , 2012 , 72, 1	4.2	232
640	Performance of missing transverse momentum reconstruction in proton-proton collisions at ($\sqrt{s} = 7 \text{ TeV}$) with ATLAS. <i>European Physical Journal C</i> , 2012 , 72, 1	4.2	217
639	Jet energy measurement with the ATLAS detector in proton-proton collisions at ($\sqrt{s} = 7 \text{ TeV}$). <i>European Physical Journal C</i> , 2013 , 73, 1	4.2	209
638	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

637	Observation of a Narrow Pentaquark State, $P_{c}(4312)^{+}$, and of the Two-Peak Structure of the $P_{c}(4450)^{+}$. <i>Physical Review Letters</i> , 2019 , 122, 222001	7.4	199
636	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
635	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
634	Study of the decay $K^{+} \rightarrow \pi^{0} \pi^{+}$ in the momentum region 140. <i>Physical Review D</i> , 2009 , 79,	4.9	194
633	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
632	Evidence for D0-D0 mixing. <i>Physical Review Letters</i> , 2007 , 98, 211802	7.4	186
631	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
630	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
629	Luminosity determination in pp collisions at ($\sqrt{s} = 7$) TeV using the ATLAS detector at the LHC. <i>European Physical Journal C</i> , 2011 , 71, 1	4.2	167
628	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
627	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
626	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
625	Observation of Five New Narrow Ξ_{c}^{0} States Decaying to $\Xi_{c}^{+} K^{-}$. <i>Physical Review Letters</i> , 2017 , 118, 182001	7.4	154
624	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
623	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
622	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
621	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
620	Angular analysis and differential branching fraction of the decay $B^0 \rightarrow \pi^+ \pi^-$. <i>Journal of High Energy Physics</i> , 2015 , 2015, 1	5.4	138

619	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
618	Search for Lepton-Universality Violation in $B^{+} \rightarrow K^{+} \mu^{+} \mu^{-}$ Decays. <i>Physical Review Letters</i> , 2019 , 122, 191801	7.4	137
617	Measurement of double charmonium production in $e+e$ annihilations at $s=10.6$ GeV. <i>Physical Review D</i> , 2005 , 72,	4.9	136
616	Direct CP violating asymmetry in $B^0 \rightarrow K+\pi$ decays. <i>Physical Review Letters</i> , 2004 , 93, 131801	7.4	136
615	Search for neutrinos from annihilation of captured low-mass dark matter particles in the sun by super-kamiokande. <i>Physical Review Letters</i> , 2015 , 114, 141301	7.4	134
614	Measurement of the Ratio of the $B^0 \rightarrow D^{*-} \mu^{+} \mu^{-}$ and $B^0 \rightarrow D^{*-} \mu^{+} \tau^{-}$ Branching Fractions Using Three-Prong Lepton Decays. <i>Physical Review Letters</i> , 2018 , 120, 171802	7.4	126
613	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
612	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. <i>Journal of High Energy Physics</i> , 2014 , 2014, 1	5.4	120
611	Observation of a new Ds meson decaying to DK at a mass of 2.86 GeV/c ² . <i>Physical Review Letters</i> , 2006 , 97, 222001	7.4	117
610	Search for doubly charmed baryons \bar{D}_c^{+} and \bar{D}_c^{++} in BABAR. <i>Physical Review D</i> , 2006 , 74,	4.9	116
609	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
608	Measurement of the Ratio of Branching Fractions $B(B_{c}^{+} \rightarrow J/\psi \mu^{+} \mu^{-})/B(B_{c}^{+} \rightarrow J/\psi \tau^{+} \tau^{-})$. <i>Physical Review Letters</i> , 2018 , 120, 121801	7.4	109
607	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 8TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2014 , 74, 3109	4.2	107
606	Test of lepton flavor universality by the measurement of the $B^0 \rightarrow D^{*} \mu \mu$ branching fraction using three-prong μ decays. <i>Physical Review D</i> , 2018 , 97,	4.9	106
605	Measurement of the $B_{s}^{0} \rightarrow \mu^{+} \mu^{-}$ Branching Fraction and Effective Lifetime and Search for $B^{+} \rightarrow \mu^{+} \mu^{-}$ Decays. <i>Physical Review Letters</i> , 2017 , 118, 191801	7.4	106
604	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
603	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
602	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

601	Observation of J/ψ Structures Consistent with Exotic States from Amplitude Analysis of $B^+ \rightarrow J/\psi K^+$ Decays. <i>Physical Review Letters</i> , 2017 , 118, 022003	7.4	98
600	Observation of a Charmed Baryon Decaying to $D_s^0 p$ at a Mass Near $2.94 \text{ GeV}/c^2$. <i>Physical Review Letters</i> , 2007 , 98, 012001	7.4	97
599	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
598	Evidence for Exotic Hadron Contributions to $\psi(3700) \rightarrow J/\psi \pi^+ \pi^-$ Decays. <i>Physical Review Letters</i> , 2016 , 117, 082003	7.4	91
597	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
596	The large enriched germanium experiment for neutrinoless double beta decay (LEGEND) 2017 ,		86
595	Hadronic structure in the decay $B \rightarrow \pi \pi$ and the sign of the tau neutrino helicity. <i>Physical Review D</i> , 1999 , 61,	4.9	86
594	Model-Independent Evidence for J/ψ Contributions to $\psi(3700) \rightarrow J/\psi K^+ K^-$ Decays. <i>Physical Review Letters</i> , 2016 , 117, 082002	7.4	85
593	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
592	Readiness of the ATLAS Tile Calorimeter for LHC collisions. <i>European Physical Journal C</i> , 2010 , 70, 1193-1236	4.2	82
591	Search for additional heavy neutral Higgs and gauge bosons in the ditau final state produced in 36 fb^{-1} of pp collisions at $(\sqrt{s}=13)$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	81
590	Measurement of the Z/ψ 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
589	Observation of the semileptonic decays $B \rightarrow D^* \tau \nu_\tau$ and evidence for $B \rightarrow D \tau \nu_\tau$. <i>Physical Review Letters</i> , 2008 , 100, 021801	7.4	79
588	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
587	Search for Dark Photons Produced in 13 TeV pp Collisions. <i>Physical Review Letters</i> , 2018 , 120, 061801	7.4	75
586	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
585	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
584	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

583	Dalitz plot analysis of $B_s^0 \rightarrow D^0 K^0$ decays. <i>Physical Review D</i> , 2014 , 90,	4.9	70
582	The ATLAS Inner Detector commissioning and calibration. <i>European Physical Journal C</i> , 2010 , 70, 787-821	4.2	70
581	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
580	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
579	Search for Higgs boson pair production in the $[\text{Formula: see text}]$ final state from collisions at $[\text{Formula: see text}]$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2015 , 75, 412	4.2	66
578	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
577	Measurements of prompt charm production cross-sections in pp collisions at $(\sqrt{s}=13)$ TeV. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1	5.4	65
576	Search for Hidden-Sector Bosons in $B(0) \rightarrow K^{*0} \ell^+ \ell^-$ Decays. <i>Physical Review Letters</i> , 2015 , 115, 161802	7.4	65
575	First indication of terrestrial matter effects on solar neutrino oscillation. <i>Physical Review Letters</i> , 2014 , 112, 091805	7.4	65
574	Measurement of the $B^+ \rightarrow \rho^+ K^+$ branching fraction and study of the decay dynamics. <i>Physical Review D</i> , 2005 , 72,	4.9	65
573	Measurement of the Cabibbo-Kobayashi-Maskawa angle γ in $B^+ \rightarrow D^+ K^0 \pi^+$ decays with a Dalitz analysis of $D^+ \rightarrow K^0(S) \pi^+ \pi^+$. <i>Physical Review Letters</i> , 2005 , 95, 121802	7.4	65
572	Study of the production of and hadrons in pp collisions and first measurement of the branching fraction. <i>Chinese Physics C</i> , 2016 , 40, 011001	2.2	65
571	Search for Structure in the $B_{s^0}^0$ Invariant Mass Spectrum. <i>Physical Review Letters</i> , 2016 , 117, 152003	7.4	64
570	Measurement of the transverse momentum and $[\text{Formula: see text}]$ distributions of Drell-Yan lepton pairs in proton-proton collisions at $[\text{Formula: see text}]$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2016 , 76, 291	4.2	63
569	Search for resonant diboson production in the $[\text{Formula: see text}]$ final state in $[\text{Formula: see text}]$ collisions at $[\text{Formula: see text}]$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2015 , 75, 69	4.2	62
568	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
567	Observation of overlapping spin-1 and spin-3 $D^0 K^-$ resonances at mass 2.86 GeV/c ² . <i>Physical Review Letters</i> , 2014 , 113, 162001	7.4	61
566	Search for dark matter in events with heavy quarks and missing transverse momentum in $[\text{Formula: see text}]$ collisions with the ATLAS detector. <i>European Physical Journal C</i> , 2015 , 75, 92	4.2	60

565	Search for CP violation in the decays $D^0 \rightarrow K^- K^+$ and $D^0 \rightarrow \pi^- \pi^+$. <i>Physical Review Letters</i> , 2008 , 100, 061803	7.4	60
564	Search for $A^{\pm} \rightarrow \bar{D}^{\pm} D^{\pm}$ Decays. <i>Physical Review Letters</i> , 2020 , 124, 041801	7.4	60
563	Measurement of the τ -boson mass in pp collisions at with the ATLAS detector. <i>European Physical Journal C</i> , 2018 , 78, 110	4.2	59
562	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
561	A search for (χ_{c0}) 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
560	Amplitude analysis of $B^+ \rightarrow J/\psi K^+$ decays. <i>Physical Review D</i> , 2017 , 95,	4.9	56
559	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
558	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
557	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
556	Measurements of top quark pair relative differential cross-sections with ATLAS in pp collisions at ($\sqrt{s} = 7$ TeV). <i>European Physical Journal C</i> , 2013 , 73, 1	4.2	55
555	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
554	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
553	Differential branching fraction and angular analysis of $D^0 b \rightarrow \bar{D}^0 b$ decays. <i>Journal of High Energy Physics</i> , 2015 , 2015,	5.4	54
552	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
551	First Observation of the Doubly Charmed Baryon Decay $\chi_{cc}^{++} \rightarrow \chi_c^+ D^+$. <i>Physical Review Letters</i> , 2018 , 121, 162002	7.4	54
550	Precision measurement of CP violation in $B(S)(0) \rightarrow J/\psi K^-$ decays. <i>Physical Review Letters</i> , 2015 , 114, 041801	7.4	53
549	Search for squarks and gluinos in final states with jets and missing transverse momentum at $[Formula: see text] = 13$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2016 , 76, 392	4.2	53
548	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

547	Dalitz plot analysis of $B_0 \rightarrow D^0 \pi^+ \pi^-$ decays. <i>Physical Review D</i> , 2015 , 92,	4.9	53
546	Measurement of the inclusive and dijet cross-sections of b-jets in pp collisions at ($\sqrt{s}=7$ TeV) with the ATLAS detector. <i>European Physical Journal C</i> , 2011 , 71, 1	4.2	53
545	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
544	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
543	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
542	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
541	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
540	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
539	Observation of CP Violation in Charm Decays. <i>Physical Review Letters</i> , 2019 , 122, 211803	7.4	51
538	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
537	Confirmation of a charged charmoniumlike state $Z_c(3885)^+$ in $e^+e^- \rightarrow D^0 D^{*+}$ with double D tag. <i>Physical Review D</i> , 2015 , 92,	4.9	51
536	Measurement of the jet fragmentation function and transverse profile in proton-proton 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
535	Observation of a New χ_{c0} Resonance. <i>Physical Review Letters</i> , 2018 , 121, 072002	7.4	50
534	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
533	Evidence for the ($H \rightarrow b\bar{b}$) decay with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1	5.4	50
532	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
531	Measurement of charged-particle spectra in Pb+Pb collisions at ($\sqrt{s_{\text{NN}}}=2.76$) TeV with the ATLAS detector at the LHC. <i>Journal of High Energy Physics</i> , 2015 , 2015, 1	5.4	49
530	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

529	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
528	Search for long-lived scalar particles in $B \rightarrow K + \text{[Formula: see text]}$ decays. <i>Physical Review D</i> , 2017 , 95,	4.9	48
527	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
526	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
525	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
524	Measurements of the S-wave fraction in $B \rightarrow K + \text{[Formula: see text]}$ decays and the $B \rightarrow K^*(892) \text{[Formula: see text]}$ differential branching fraction. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1	5.4	48
523	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
522	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
521	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
520	Measurement of forward J/ψ production cross-sections in pp collisions at ($\sqrt{s}=13$) TeV. <i>Journal of High Energy Physics</i> , 2015 , 2015, 1	5.4	47
519	Measurements of CP violation in the three-body phase space of charmless $B \rightarrow \text{[Formula: see text]}$ decays. <i>Physical Review D</i> , 2014 , 90,	4.9	47
518	Measurement of CP-Averaged Observables in the $B^0 \rightarrow K^{*0} \text{[Formula: see text]}$ Decay. <i>Physical Review Letters</i> , 2020 , 125, 011802	7.4	46
517	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
516	Search for lepton-flavour-violating $H \rightarrow \text{[Formula: see text]}$ decays of the Higgs boson with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2015 , 2015, 1	5.4	46
515	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
514	Muon reconstruction efficiency and momentum resolution of the ATLAS experiment in proton-proton collisions at [Formula: see text] TeV in 2010. <i>European Physical Journal C</i> , 2014 , 74, 3034	4.2	45
513	Search for CPT and lorentz violation in $B_0 - \overline{B}_0$ oscillations with dilepton events. <i>Physical Review Letters</i> , 2008 , 100, 131802	7.4	45
512	Amplitude analysis of $B \rightarrow D + \text{[Formula: see text]}$ decays. <i>Physical Review D</i> , 2016 , 94,	4.9	45

511	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
510	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
509	Measurement of the Lifetime of the Doubly Charmed Baryon Ξ_{cc}^{++} . <i>Physical Review Letters</i> , 2018 , 121, 052002	7.4	44
508	Search for pair-produced massive coloured scalars in four-jet final states with the ATLAS detector in proton-proton collisions at ($\sqrt{s} = 7$ TeV). <i>European Physical Journal C</i> , 2013 , 73, 1	4.2	44
507	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
506	Jet reconstruction and performance using particle flow with the ATLAS Detector. <i>European Physical Journal C</i> , 2017 , 77, 466	4.2	42
505	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. <i>European Physical Journal C</i> , 2016 , 76, 283	4.2	42
504	Measurement of CP asymmetry in $D^0 \rightarrow K^+ K^-$ and $D^0 \rightarrow \pi^+ \pi^-$ decays. <i>Journal of High Energy Physics</i> , 2014 , 2014, 1	5.4	42
503	Measurement of the exclusive \bar{b} production cross-section in pp collisions at ($\sqrt{s}=7$) TeV and 8 TeV. <i>Journal of High Energy Physics</i> , 2015 , 2015, 1	5.4	42
502	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
501	Measurement of the hadronic form factor in $D^0 \rightarrow K^+ \pi^-$ decays. <i>Physical Review D</i> , 2007 , 76,	4.9	42
500	Measurement of the [Formula: see text] production cross-section in proton-proton collisions via the decay [Formula: see text]. <i>European Physical Journal C</i> , 2015 , 75, 311	4.2	41
499	Search for heavy resonances in the and final states using proton-proton collisions at [Formula: see text] with the ATLAS detector. <i>European Physical Journal C</i> , 2018 , 78, 293	4.2	41
498	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
497	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
496	Readiness of the ATLAS liquid argon calorimeter for LHC collisions. <i>European Physical Journal C</i> , 2010 , 70, 723-753	4.2	41
495	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
494	Search for the Decays $B_{s^0} \rightarrow \mu^+ \mu^-$ and $B^0 \rightarrow \mu^+ \mu^-$. <i>Physical Review Letters</i> , 2017 , 118, 251802	7.4	40

493	Improved Measurement of the $B \rightarrow e\bar{e}$ Branching Ratio. <i>Physical Review Letters</i> , 2015 , 115, 071801	7.4	40
492	Measurement of the centrality dependence of the charged-particle pseudorapidity distribution in proton-lead collisions at $\sqrt{s_{NN}} = 2.76$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2016 , 76, 199	4.2	39
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490	A search for $(\bar{t}t)$ resonances in lepton+jets events with highly boosted top quarks collected in pp collisions at $(\sqrt{s} = 7)$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2012 , 2012, 1	5.4	39
489	Performance of algorithms that reconstruct missing transverse momentum in $\sqrt{s} = 8$ TeV proton-proton collisions in the ATLAS detector. <i>European Physical Journal C</i> , 2017 , 77, 241	4.2	38
488	Observation and measurements of the production of prompt and non-prompt B_c mesons in association with a W boson in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2015 , 75, 229	4.2	38
487	Search for long-lived neutral particles decaying into lepton jets in proton-proton collisions at $(\sqrt{s} = 8)$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2014 , 2014, 1	5.4	38
486	Measurement of the production of a W boson in association with a charm quark in pp collisions at $(\sqrt{s} = 7)$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2014 , 2014, 1	5.4	37
485	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
484	Search for the Standard Model Higgs boson in the $H \rightarrow B_s \mu\mu$ decay mode in $(\sqrt{s} = 7, \text{TeV})$ pp collisions with ATLAS. <i>Journal of High Energy Physics</i> , 2012 , 2012, 1	5.4	37
483	Search for massive neutrinos in the decay $B \rightarrow e\bar{\nu}$ <i>Physical Review D</i> , 2011 , 84,	4.9	37
482	Charged-particle distributions at low transverse momentum in $\sqrt{s} = 2.76$ TeV interactions measured with the ATLAS detector at the LHC. <i>European Physical Journal C</i> , 2016 , 76, 502	4.2	37
481	Measurement of the b-Quark Production Cross Section in 7 and 13 TeV pp Collisions. <i>Physical Review Letters</i> , 2017 , 118, 052002	7.4	36
480	Measurement of the Higgs boson coupling properties in the $H \rightarrow ZZ^* \rightarrow 4\ell$ decay channel at $(\sqrt{s} = 13)$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	36
479	Limits on the decay-rate difference of neutral B mesons and on CP, T, and CPT violation in $B^0\bar{B}^0$ oscillations. <i>Physical Review D</i> , 2004 , 70,	4.9	36
478	Search for massive long-lived particles decaying semileptonically in the LHCb detector. <i>European Physical Journal C</i> , 2017 , 77, 224	4.2	35
477	Measurement of B_c^+ Production in Proton-Proton Collisions at $\sqrt{s} = 8$ TeV. <i>Physical Review Letters</i> , 2015 , 114, 132001	7.4	35
476	Measurement of longitudinal flow decorrelations in Pb+Pb collisions at 2.76 and 5.02 TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2018 , 78, 142	4.2	35

475	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
474	Improved search for heavy neutrinos in the decay $B \rightarrow e \mu$ <i>Physical Review D</i> , 2018 , 97,	4-9	35
473	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
472	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
471	Observation of two new $\Lambda(b)$ baryon resonances. <i>Physical Review Letters</i> , 2015 , 114, 062004	7-4	35
470	Search for second generation scalar leptoquarks in pp collisions at $(\sqrt{s}=7 \sim 8 \text{ TeV})$ with the ATLAS detector. <i>European Physical Journal C</i> , 2012 , 72, 1	4-2	35
469	Amplitude analysis of the $B^+ \rightarrow D^+ D_s^+$ decay. <i>Physical Review D</i> , 2020 , 102,	4-9	34
468	Measurement of forward W and Z boson production in pp collisions at $s = 8 \sqrt{s} = 8 \text{ TeV}$. <i>Journal of High Energy Physics</i> , 2016 , 2016,	5-4	34
467	Quantum numbers of the X(3872) state and orbital angular momentum in its DJ/ψ decay. <i>Physical Review D</i> , 2015 , 92,	4-9	34
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464	Measurement of the CP-violating phase ϕ_1 in $B^0 \rightarrow J/\psi \pi^0$ decays. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2014 , 736, 186-195	4-2	33
463	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
462	Study of χ_{c0} meson production in $p p$ collisions at $\sqrt{s} = 7$ and 8 TeV . <i>European Physical Journal C</i> , 2014 , 74,	4-2	33
461	Improved measurements of the branching fractions for $B^0 \rightarrow \pi^+ \pi^-$ and $B^0 \rightarrow K^+ K^-$ and a search for $B^0 \rightarrow K^+ K^0$ <i>Physical Review D</i> , 2007 , 75,	4-9	33
460	Search for charged Higgs bosons in the $H \rightarrow t b$ decay channel in pp collisions at $(\sqrt{s}=8) \text{ TeV}$ using the ATLAS detector. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1	5-4	33
459	Search for top-squark pair production in final states with one lepton, jets, and missing transverse momentum using 36 fb $^{-1}$ of $(\sqrt{s}=13) \text{ TeV}$ pp collision data with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5-4	33
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456	Study of $B \rightarrow \mu^+ \mu^-$ and $B \rightarrow \mu^+ \mu^- K$ decays at BABAR. <i>Physical Review D</i> , 2008 , 77,	4.9	32
455	Measurements of long-range near-side angular correlations in $\sqrt{s}=5$ TeV proton-lead collisions in the forward region. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2016 , 762, 473-483	4.2	32
454	Measurement of the polarisation of W bosons produced with large transverse momentum in pp collisions at $(\sqrt{s} = 7 \text{ TeV})$ with the ATLAS experiment. <i>European Physical Journal C</i> , 2012 , 72, 1	4.2	31
453	Measurement of the forward Z boson production cross-section in pp collisions at $(\sqrt{s}=7)$ TeV. <i>Journal of High Energy Physics</i> , 2015 , 2015, 1	5.4	31
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451	Search for contact interactions and large extra dimensions in the dilepton channel using proton-proton collisions at $\sqrt{s}=7$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2014 , 74, 3134	4.2	31
450	Search for a scalar partner of the top quark in the jets plus missing transverse momentum final state at $(\sqrt{s}=13)$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1	5.4	30
449	First observation and amplitude analysis of the $B \rightarrow D^+ K^0$ decay. <i>Physical Review D</i> , 2015 , 91,	4.9	30
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447	Precision measurement of the mass and lifetime of the $\Lambda_b(0)$ baryon. <i>Physical Review Letters</i> , 2014 , 113, 032001	7.4	30
446	Measurement of the $B \rightarrow D^* \mu^+ \mu^-$ production cross section in the tau + jets channel using the ATLAS detector. <i>European Physical Journal C</i> , 2013 , 73, 2328	4.2	30
445	Measurements of underlying-event properties using neutral and charged particles in pp collisions at $(\sqrt{s}=900)$ GeV and $(\sqrt{s}=7)$ TeV with the ATLAS detector at the LHC. <i>European Physical Journal C</i> , 2011 , 71, 1	4.2	30
444	Observation of the $B \rightarrow J/\psi \mu^+ \mu^-$ decay. <i>Journal of High Energy Physics</i> , 2014 , 2014, 1	5.4	29
443	Reconstruction of primary vertices at the ATLAS experiment in Run 1 proton-proton collisions at the LHC. <i>European Physical Journal C</i> , 2017 , 77, 332	4.2	29
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439	Measurement of the semileptonic CP asymmetry in B_0 - B_0 mixing. <i>Physical Review Letters</i> , 2015 , 114, 041601	7.4	28
438	A search for pair-produced resonances in four-jet final states at with the ATLAS detector. <i>European Physical Journal C</i> , 2018 , 78, 250	4.2	28
437	Reconstruction of hadronic decay products of tau leptons with the ATLAS experiment. <i>European Physical Journal C</i> , 2016 , 76, 295	4.2	28
436	Search for single top-quark production via flavour-changing neutral currents at 8 TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2016 , 76, 55	4.2	28
435	Search for nucleon decay via $n \rightarrow \bar{\nu} \mu$ and $p \rightarrow \bar{\nu} \pi$ in Super-Kamiokande. <i>Physical Review Letters</i> , 2014 , 113, 121802	7.4	28
434	Search for minimal supersymmetric standard model Higgs Bosons H/A and for a $[Formula: see text]$ boson in the $[Formula: see text]$ final state produced in collisions at $[Formula: see text]$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2016 , 76, 585	4.2	28
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432	Fiducial, total and differential cross-section measurements of τ -channel single top-quark production in collisions at 8 TeV using data collected by the ATLAS detector. <i>European Physical Journal C</i> , 2017 , 77, 531	4.2	27
431	Study of prompt D^0 meson production in pPb collisions at $(\sqrt{s_{\mathcal{N}\mathcal{N}}}=5)$ TeV. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1	5.4	27
430	Study of $(\varDelta\epsilon)$ production and cold nuclear matter effects in pPb collisions at $(\sqrt{s_{\mathcal{N}\mathcal{N}}}) = 5$ TeV. <i>Journal of High Energy Physics</i> , 2014 , 2014, 1	5.4	27
429	Search for pair production of vector-like top quarks in events with one lepton, jets, 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	27
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424	Measurement of b hadron fractions in 13 TeV pp collisions. <i>Physical Review D</i> , 2019 , 100,	4.9	26
423	Search for long-lived particles decaying to jet pairs. <i>European Physical Journal C</i> , 2015 , 75, 152	4.2	26
422	Search for heavy resonances decaying into a W or Z boson and a Higgs boson in final states with leptons and b-jets in 36 fb $^{-1}$ of $(\sqrt{s}=13)$ TeV pp collisions with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	26

4 ²¹	Measurement of τ_1 and τ_2 production with $(\sqrt{s}) = 7$ TeV pp collisions at ATLAS. <i>Journal of High Energy Physics</i> , 2014 , 2014, 1	5.4	26
4 ²⁰	Measurements of the production cross section of a [Formula: see text] boson in association with jets in collisions at [Formula: see text] TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2017 , 77, 361	4.2	26
4 ¹⁹	Precision measurement of the mass and lifetime of the Λ_b^0 baryon. <i>Physical Review Letters</i> , 2014 , 113, 242002	7.4	26
4 ¹⁸	Test of CP invariance in vector-boson fusion production of the Higgs boson using the method in the ditau decay channel with the ATLAS detector. <i>European Physical Journal C</i> , 2016 , 76, 658	4.2	26
4 ¹⁷	Evidence for an resonance in decays. <i>European Physical Journal C</i> , 2018 , 78, 1019	4.2	26
4 ¹⁶	Amplitude Analysis of the Decays $B^0 \rightarrow \rho^+ \rho^- \pi^0$ and $B^0 \rightarrow \rho^0 \rho^0 \pi^0$. <i>Physical Review Letters</i> , 2017 , 118, 012001	7.4	25
4 ¹⁵	Measurement of the phase difference between short- and long-distance amplitudes in the [Formula: see text] decay. <i>European Physical Journal C</i> , 2017 , 77, 161	4.2	25
4 ¹⁴	Electron and photon energy calibration with the ATLAS detector using 2015-2016 LHC proton-proton collision data. <i>Journal of Instrumentation</i> , 2019 , 14, P03017-P03017	1	25
4 ¹³	Model-Independent Study of Structure in $B^+ \rightarrow D^+ D^0 K^+$ Decays. <i>Physical Review Letters</i> , 2020 , 125, 242001	7.4	25
4 ¹²	Measurement of the Difference of Time-Integrated CP Asymmetries in $D^0 \rightarrow K^+ K^+$ and $D^0 \rightarrow \rho^+ \rho^+$ Decays. <i>Physical Review Letters</i> , 2016 , 116, 191601	7.4	25
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4 ¹⁰	Measurement of inclusive and differential cross sections in the $H \rightarrow ZZ^* \rightarrow 4\ell$ decay channel in pp collisions at $(\sqrt{s}=13)$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1	5.4	25
4 ⁰⁹	Measurement of the J/ψ pair production cross-section in pp collisions at $(\sqrt{s}=13)$ TeV. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1	5.4	25
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4 ⁰⁴	Measurement of the $e^+e^- \rightarrow ZZ$ production cross section at centre-of-mass energies of 183 and 189 GeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1999 , 469, 287-302	4.2	25

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401	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
400	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
399	Measurement of the production cross section of prompt J/ψ mesons in association with a W^\pm boson in pp collisions at (\sqrt{s}) = 7 TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2014 , 2014, 1	5.4	24
398	Measurement of the differential cross-section of B^+ meson production in pp collisions at ($\sqrt{s}=7$) TeV at ATLAS. <i>Journal of High Energy Physics</i> , 2013 , 2013, 1	5.4	24
397	Measurement of the CP -violating phase $\arg(\lambda_{cb})$ in $B^0 \rightarrow J/\psi K^0$ decays and limits on penguin effects. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2015 , 742, 38-49	4.2	24
396	First observation of a baryonic B_c^+ decay. <i>Physical Review Letters</i> , 2014 , 113, 152003	7.4	24
395	Search for the decay $B^0 \rightarrow \rho^+ \rho^-$. <i>Physical Review D</i> , 2004 , 69,	4.9	24
394	Search for single production of vector-like quarks decaying into in collisions at [Formula: see text] TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2016 , 76, 442	4.2	24
393	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
392	Search for pair production of up-type vector-like quarks and for four-top-quark events in final states with multiple b-jets with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	23
391	Updated search for long-lived particles decaying to jet pairs. <i>European Physical Journal C</i> , 2017 , 77, 812	4.2	23
390	Measurement of the ratio of B_c^+ branching fractions to J/ψ and J/ψ final states. <i>Physical Review D</i> , 2014 , 90,	4.9	23
389	Search for proton decay via $p \rightarrow \pi^0 K^0$ in Super-Kamiokande I, II, and III. <i>Physical Review D</i> , 2012 , 86,	4.9	23
388	Measurement of the CKM angle Γ from a combination of LHCb results. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1	5.4	23
387	Search for a new heavy gauge-boson resonance decaying into a lepton and missing transverse momentum in 36 fb of collisions at TeV with the ATLAS experiment. <i>European Physical Journal C</i> , 2018 , 78, 401	4.2	23
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383	Search for the lepton flavour violating decay $\tau \rightarrow \mu \gamma$. <i>Journal of High Energy Physics</i> , 2015 , 2015, 1	5.4	22
382	Search for W W/W Z resonance production in $\bar{q}q$ final states in pp collisions at ($\sqrt{s}=13$) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	22
381	Search for Violations of Lorentz Invariance and CPT Symmetry in $B_{(s)}^{0}$ Mixing. <i>Physical Review Letters</i> , 2016 , 116, 241601	7.4	22
380	A search for prompt lepton-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	22
379	Observation of New Resonances in the $B_c^{(+)}$ System. <i>Physical Review Letters</i> , 2019 , 123, 152001	7.4	22
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377	Search for supersymmetry in final states with two same-sign or three leptons and jets using 36 fb ⁻¹ 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
376	Measurement of CP Violation in $B^0 \rightarrow J/\psi K^0$ Decays. <i>Physical Review Letters</i> , 2015 , 115, 031601	7.4	22
375	Measurement of the forward-backward asymmetry in $Z/\gamma \rightarrow \tau^+ \tau^-$ decays and determination of the effective weak mixing angle. <i>Journal of High Energy Physics</i> , 2015 , 2015, 1	5.4	22
374	Measurement of the $B^0 \bar{B}^0$ and $B_s^0 \bar{B}_s^0$ production asymmetries in pp collisions at $s=7$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2014 , 739, 218-228	4.2	22
373	Search for dinucleon decay into kaons in Super-Kamiokande. <i>Physical Review Letters</i> , 2014 , 112, 131803	7.4	22
372	Search for Higgs boson decays to beyond-the-Standard-Model light bosons in four-lepton events with the ATLAS detector at ($\sqrt{s}=13$) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	22
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226	Model-independent measurement of mixing parameters in $D^0 \rightarrow K^+ S^0$ decays. <i>Journal of High Energy Physics</i> , 2016 , 2016,	5.4	11
225	Measurement of the CP Violation Parameter A_{FB}^0 in $D^+ \rightarrow K^+ K^0$ and $D^0 \rightarrow \mu^+ \mu^-$ Decays. <i>Physical Review Letters</i> , 2017 , 118, 261803	7.4	11
224	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

223	Probing the Wtb 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
222	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
221	Measurement of the branching fraction ratio $B(B_{c^+} \rightarrow [2S]_{\mu})/B(B_{c^+} \rightarrow J/\psi)$. <i>Physical Review D</i> , 2015 , 92,	4.9	11
220	Measurement of the time-integrated CP asymmetry in $D^0 \rightarrow K^0_S K^0_S$ decays. <i>Journal of High Energy Physics</i> , 2015 , 2015, 1	5.4	11
219	Measurement of CP violation parameters in $B^0 \rightarrow DK^{*0}$ decays. <i>Physical Review D</i> , 2014 , 90,	4.9	11
218	Search for supersymmetry in events with large missing transverse momentum, jets, and at least one tau lepton in 7 TeV proton-proton collision data with the ATLAS detector. <i>European Physical Journal C</i> , 2012 , 72, 1	4.2	11
217	Studies of the resonance structure in decays. <i>European Physical Journal C</i> , 2018 , 78, 443	4.2	11
216	Updated determination of $D^0\bar{D}^0$ mixing and CP violation parameters with $D^0 \rightarrow K^+\pi^-$ decays. <i>Physical Review D</i> , 2018 , 97,	4.9	11
215	Observation of New Resonances Decaying to J/ψ^{c^+} and J/ψ . <i>Physical Review Letters</i> , 2021 , 127, 082001	7.4	11
214	Study of charmonium production in π -hadron decays and first evidence for the decay. <i>European Physical Journal C</i> , 2017 , 77, 609	4.2	10
213	Observation of New Ω_{cc}^0 Baryons Decaying to $\Omega_{cc}^{+} K^0$. <i>Physical Review Letters</i> , 2020 , 124, 222001	7.4	10
212	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
211	Measurement of CP observables in $B_{\mu} \rightarrow D^{(*)} K_{\mu}$ and $B_{\mu} \rightarrow D^{(*)} \pi$ decays. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2018 , 777, 16-30	4.2	10
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209	Measurement of the CP-violating phase ϕ_s and the B^0_s meson decay width difference with $B^0_s \rightarrow J/\psi$ decays in ATLAS. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1	5.4	10
208	Study of $[2S]$ production and cold nuclear matter effects in pPb collisions at ($\sqrt{s_{NN}}=5$) TeV. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1	5.4	10
207	First observation of the decay $D^0 \rightarrow K^0_{\mu\mu}$ in the $\mu\mu$ region of the dimuon mass spectrum. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2016 , 757, 558-567	4.2	10
206	Measurement of B_{s^0} and D_{s^+} Meson Lifetimes. <i>Physical Review Letters</i> , 2017 , 119, 101801	7.4	10

205	Observation of the suppressed decay $B^0 \rightarrow p \bar{K}^0$. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1	5.4	10
204	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
203	Measurement of B^0 , B_s^0 , B^+ and B^0 production asymmetries in 7 and 8 TeV proton-proton collisions. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2017 , 774, 139-158	4.3	10
202	First Observation of a Baryonic $B_{\{s\}^0}$ Decay. <i>Physical Review Letters</i> , 2017 , 119, 041802	7.4	10
201	Search for the decay $(B_{\{s\}^0} \rightarrow \overline{D}^0 \{F_0(980)\})$. <i>Journal of High Energy Physics</i> , 2015 , 2015, 1	5.4	10
200	Measurement of the $B_{\{s\}^0}$ meson lifetime in D_s^+ decays. <i>Physical Review Letters</i> , 2014 , 113, 172001	7.4	10
199	Observation of charmonium pairs produced exclusively in pp collisions. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2014 , 41, 115002	2.9	10
198	Measurement of CP asymmetry in $B^0 \rightarrow D^+ K^-$ decays. <i>Journal of High Energy Physics</i> , 2014 , 2014, 1	5.4	10
197	A new algorithm for identifying the flavour of B^0 mesons at LHCb. <i>Journal of Instrumentation</i> , 2016 , 11, P05010-P05010	1	10
196	Search for B_c^+ decays to the $pp\pi$ final state. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2016 , 759, 313-321	4.2	10
195	Mapping the material in the LHCb vertex locator using secondary hadronic interactions. <i>Journal of Instrumentation</i> , 2018 , 13, P06008-P06008	1	10
194	Measurement of the mass and production rate of B baryons. <i>Physical Review D</i> , 2019 , 99,	4.9	9
193	Determination of Γ_{had} from charmless two-body decays of beauty mesons. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2015 , 741, 1-11	4.2	9
192	Measurement of the ZZ production cross section in proton-proton collisions at $(\sqrt{s}=8)$ TeV using the $ZZ \rightarrow \mu\mu$ and $(ZZ \rightarrow \ell\ell \nu \overline{\nu})$ decay channels with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1	5.4	9
191	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
190	Measurement of the time-dependent CP asymmetries in $B^0 \rightarrow J/\psi K^0$. <i>Journal of High Energy Physics</i> , 2015 , 2015,	5.4	9
189	Observation of the $B^0 \rightarrow \mu\mu$ decay from an amplitude analysis of $B^0 \rightarrow (\mu\mu)$ decays. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2015 , 747, 468-478	4.2	9
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186	Measurement of the (η_c) ($1S$) production cross-section in $(p)(p)$ collisions at $(\sqrt{s} = 13)$ (TeV). <i>European Physical Journal C</i> , 2020 , 80, 1	4.2	9
185	Measurements of the Higgs boson inclusive and differential fiducial cross sections in the $4(\ell\ell)$ decay channel at $(\sqrt{s}) = 13$ TeV. <i>European Physical Journal C</i> , 2020 , 80, 1	4.2	9
184	Search for the rare decay $B^+ \rightarrow p\bar{u}\bar{u}$. <i>Physical Review D</i> , 2018 , 97,	4.9	9
183	Search for the suppressed decays $B^+ \rightarrow K^+K^+\bar{u}$ and $B^+ \rightarrow \bar{u}\bar{u}K^+$. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2017 , 765, 307-316	4.2	8
182	Observation of $B_c^+ \rightarrow J/\psi K^+$ decays. <i>Physical Review D</i> , 2017 , 95,	4.9	8
181	Measurements of charm mixing and CP violation using $D^0 \rightarrow K\bar{u}u$ decays. <i>Physical Review D</i> , 2017 , 95,	4.9	8
180	Measurement of the Charm-Mixing Parameter γ_{CP} . <i>Physical Review Letters</i> , 2019 , 122, 011802	7.4	8
179	Study of $\bar{u}u$ mixing from measurement of $B(s) \rightarrow J/\psi$ decay rates. <i>Journal of High Energy Physics</i> , 2015 , 2015,	5.4	8
178	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
177	Measurement of branching fractions of charmless four-body $\bar{u}b$ and $\bar{u}b$ decays. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	8
176	Evidence for the Rare Decay $B^+ \rightarrow p\bar{u}\bar{u}$. <i>Physical Review Letters</i> , 2018 , 120, 221803	7.4	8
175	Measurement of splitting scales in \rightarrow events at [Formula: see text] with the ATLAS detector. <i>European Physical Journal C</i> , 2013 , 73, 2432	4.2	8
174	χ_{c1} and χ_{c2} Resonance Parameters with the Decays $\chi_{c1,c2} \rightarrow J/\psi \bar{u}u$. <i>Physical Review Letters</i> , 2017 , 119, 221801	7.4	8
173	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
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171	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
170	Measurement of the B_c^+ production cross-section in pp collisions at $s = 7 \sqrt{s} = 7$ and 13 TeV. <i>Journal of High Energy Physics</i> , 2017 , 2017,	5.4	8

169	Measurement of the B^0 \rightarrow $\tau^+\tau^-$ branching fraction and search for the decay $B^0 \rightarrow \tau^+\tau^-$. <i>Journal of High Energy Physics</i> , 2015 , 2015, 1	5.4	8
168	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
167	Search for long-lived heavy charged particles using a ring imaging Cherenkov technique at LHCb. <i>European Physical Journal C</i> , 2015 , 75, 595	4.2	8
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165	SEARCH FOR NEUTRINOS FROM GRB 080319B AT SUPER-KAMIOKANDE. <i>Astrophysical Journal</i> , 2009 , 697, 730-734	4.7	8
164	Measurement of the ratio $B(B^+ \rightarrow X e^+) / B(B^0 \rightarrow X e^0)$ <i>Physical Review D</i> , 2006 , 74,	4.9	8
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161	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
160	Measurement of forward W and Z boson production in association with jets in proton-proton collisions at $(\sqrt{s}=8)$ TeV. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1	5.4	8
159	Measurement of forward $W \rightarrow e\bar{\nu}$ production in pp collisions at $(\sqrt{s}=8)$ TeV. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1	5.4	8
158	Search for Lepton-Flavor Violating Decays $B^+ \rightarrow K^+ \mu^+ \mu^- e^+$. <i>Physical Review Letters</i> , 2019 , 123, 241802	8.0	8
157	Study of τ production in pPb collisions at $(\sqrt{s_{\text{NN}}}=8.16)$ TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	8
156	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
155	Measurement of Angular and CP Asymmetries in $D^0 \rightarrow \pi^+ \pi^- \pi^+ \pi^-$ and $D^0 \rightarrow K^+ K^- \pi^+ \pi^-$ Decays. <i>Physical Review Letters</i> , 2018 , 121, 091801	7.4	8
154	Measurements of the branching fractions of $\tau^+ \rightarrow p\bar{\mu}$, $\tau^+ \rightarrow p\bar{K}^+$, and $\tau^+ \rightarrow p\bar{K}^0$. <i>Journal of High Energy Physics</i> , 2018 , 2018,	5.4	8
153	Search for the CP-violating strong decays $\eta \rightarrow \pi\pi\pi$ and $\eta(958) \rightarrow \pi\pi\pi$ <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2017 , 764, 233-240	4.2	7
152	Observation of the Decay $\tau^+ \rightarrow p K^+ K^-$. <i>Physical Review Letters</i> , 2017 , 118, 071801	7.4	7

151	Measurement of the Z+b-jet cross-section in pp collisions at (\sqrt{s}) = 7 TeV in the forward region. <i>Journal of High Energy Physics</i> , 2015 , 2015, 1	5-4	7
150	Search for new phenomena in high-mass final states with a photon and a jet from collisions at = 13 TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2018 , 78, 102	4-2	7
149	Search for squarks and gluinos in events with hadronically decaying tau leptons, jets and missing transverse momentum in proton-proton collisions at [Formula: see text] TeV recorded with the ATLAS detector. <i>European Physical Journal C</i> , 2016 , 76, 683	4-2	7
148	Study of $D^{(*)} + sJ$ mesons decaying to $D^{*} + K^0_S$ and $D^{*0} K +$ final states. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1	5-4	7
147	Observation of the $B^0_s \rightarrow J/\psi$ decay. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1	5-4	7
146	Observation of the decay $B^0 \rightarrow \bar{D} + p\bar{p}$. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2018 , 784, 101-111	4-2	7
145	Measurement of differential cross sections and W^+/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
144	First Observation of the Radiative Decay $\bar{B}^0 \rightarrow \gamma$. <i>Physical Review Letters</i> , 2019 , 123, 031801	7-4	7
143	Measurement of the ($\overline{t}\gamma$) 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
142	Measurements of top-quark pair to Z-boson cross-section ratios at (\sqrt{s})=13 TeV, 8, 7 TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1	5-4	7
141	Search for CP violation in the phase space of $D^0 \rightarrow \pi^+\pi^-\pi^0$ decays. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2017 , 769, 345-356	4-2	7
140	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
139	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
138	Studies of $Z\bar{\nu}$ 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
137	Search for decays of neutral beauty mesons into four muons. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1	5-4	7
136	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
135	Search for the rare decays $B^0 \rightarrow J/\psi \pi^0$ and $B_s^0 \rightarrow J/\psi \pi^0$. <i>Physical Review D</i> , 2015 , 92,	4-9	7
134	Observation of the $B(s)(0) \rightarrow \mu^+\mu^-$ Decay. <i>Physical Review Letters</i> , 2015 , 115, 051801	7-4	7

133	First observations of the rare decays $B \rightarrow K + \mu^+ \mu^-$ and $B \rightarrow K + \tau^+ \tau^-$. <i>Journal of High Energy Physics</i> , 2014 , 2014, 1	5.4	7
132	Search for CP violation in $\chi_{c1} \rightarrow p \bar{K} \pi^+$ decays using model-independent techniques. <i>European Physical Journal C</i> , 2020 , 80, 1	4.2	7
131	Measurement of f_s/f_u Variation with Proton-Proton Collision Energy and B-Meson Kinematics. <i>Physical Review Letters</i> , 2020 , 124, 122002	7.4	7
130	Measurement of the dijet cross section in collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2016 , 76, 670	4.2	7
129	Search for new phenomena in different-flavour high-mass dilepton final states in collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2016 , 76, 541	4.2	7
128	Search for direct top squark pair production in final states with two tau leptons in collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2016 , 76, 81	4.2	7
127	Measurements of WH and ZH production in the $H \rightarrow b\bar{b}$ decay channel in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2021 , 81, 1	4.2	7
126	Measurement of the B_{μ}^0 production asymmetry and the CP asymmetry in $B_{\mu}^0 \rightarrow J/\psi K_{\mu}^0$ decays. <i>Physical Review D</i> , 2017 , 95,	4.9	6
125	Measurement of $ V_{cb} $ with $B_s^0 \rightarrow D_s^{(*)} \mu^+ \mu^-$ decays. <i>Physical Review D</i> , 2020 , 101,	4.9	6
124	First measurement of the CP-violating phase $(\phi_{s1}^{\overline{d}})$ in $B^0 \rightarrow (K^+ \pi^-) K_{\mu}^0$ decays. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	6
123	Measurement of the mass and lifetime of the Λ_b^0 baryon. <i>Physical Review D</i> , 2016 , 93,	4.9	6
122	Constraints on the unitarity triangle Γ from Dalitz plot analysis of $B^0 \rightarrow DK^+ \pi^-$ decays. <i>Physical Review D</i> , 2016 , 93,	4.9	6
121	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
120	Measurement of CP asymmetries in $D_{\mu}^0 \rightarrow \pi_{\mu}^0$ and $D_s \mu^0 \rightarrow \pi_{\mu}^0$ decays. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2017 , 771, 21-30	4.2	6
119	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
118	Observation of the decay $B_s^0 \rightarrow \tau^+ \nu$ and evidence for $B_s^0 \rightarrow \tau^+ \mu^- \nu$. <i>Journal of High Energy Physics</i> , 2017 , 2017,	5.4	6
117	Top-quark mass measurement in the all-hadronic ($t \rightarrow b \bar{b}$) decay channel at $(\sqrt{s}=8)$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1	5.4	6
116	Measurement of the $Y(nS)$ polarizations in pp collisions at $(\sqrt{s}=7)$ and 8 TeV. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1	5.4	6

115	Measurement of CP asymmetries and polarisation fractions in ($B_s^0 \rightarrow \overline{K}^0$) decays. <i>Journal of High Energy Physics</i> , 2015 , 2015, 1	5.4	6
114	Search for the $B \rightarrow D$ and $B \rightarrow D$ decays with the LHCb detector. <i>Journal of High Energy Physics</i> , 2015 , 2015, 1	5.4	6
113	Beam test performance of the SKIROC2 ASIC. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2015 , 778, 78-84	1.2	6
112	Observation of $B_{s^0} \rightarrow \overline{K}^{*0} K^0$ and evidence for $B_{s^0} \rightarrow \overline{K}^{*0} \pi^+$ decays. <i>New Journal of Physics</i> , 2014 , 16, 123001	2.9	6
111	A precise measurement of the [Formula: see text] meson oscillation frequency. <i>European Physical Journal C</i> , 2016 , 76, 412	4.2	6
110	Measurement of the CKM angle α using $B^0 \rightarrow DK^0$ with $D \rightarrow K^0 \pi^+ \pi^-$ decays. <i>Journal of High Energy Physics</i> , 2016 , 2016,	5.4	6
109	Measurement of CP Violation in $B^0 \rightarrow D^+ D^-$ Decays. <i>Physical Review Letters</i> , 2016 , 117, 261801	7.4	6
108	Model-independent measurement of the CKM angle α using $B^0 \rightarrow DK^0$ decays with $D \rightarrow K^0 \pi^+ \pi^-$ and $K^0 \pi^+ K^0$. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1	5.4	6
107	Observation of the decay $B_s^0 \rightarrow D^0 K^+ K^-$. <i>Physical Review D</i> , 2018 , 98,	4.9	6
106	Search for exclusive Higgs and Z boson decays to τ and μ with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	6
105	First observation of $B^+ \rightarrow D^+ s^+ K^+ K^-$ decays and a search for $B^+ \rightarrow D^+ s^+ ?$ decays. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	6
104	Precise measurement of the f_s/f_d ratio of fragmentation fractions and of B_s^0 decay branching fractions. <i>Physical Review D</i> , 2021 , 104,	4.9	6
103	Measurement of jet activity produced in top-quark events with an electron, a muon and two τ -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
102	Observation of charmless baryonic decays $B(s)^0 \rightarrow pp \pi^+ h^-$. <i>Physical Review D</i> , 2017 , 96,	4.9	5
101	Observation of the ($\Lambda_{\text{charm}}^0 \rightarrow \text{p} \chi_{\text{c1}}$) (3872) pK decay. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1	5.4	5
100	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
99	Observation of $B_{s^0} \rightarrow D^0 K_{S^0}$ and Evidence for $B_{s^0} \rightarrow D^0 K_{S^0}^*$ Decays. <i>Physical Review Letters</i> , 2016 , 116, 161802	7.4	5
98	Observation of the $B^0 \rightarrow J/\psi K^0 \pi^0$ decay. <i>Journal of High Energy Physics</i> , 2014 , 2014, 1	5.4	5

97	Observation of the decay $B^0 \rightarrow \rho^+ K^-$ and a search for CP violation. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1	5-4	5
96	Study of $(\overline{b}b)$ correlations in high energy proton-proton collisions. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1	5-4	5
95	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
94	Determination of the branching fractions of $B^0 \rightarrow D^+ S^-$ and $B^0 \rightarrow D^+ K^-$. <i>Journal of High Energy Physics</i> , 2015 , 2015, 1	5-4	5
93	Branching Fraction Measurements of the Rare $B_{(s)}^0 \rightarrow \mu^+ \mu^-$ and $B_{(s)}^0 \rightarrow f_2(1525) \mu^+ \mu^-$ Decays. <i>Physical Review Letters</i> , 2021 , 127, 151801	7-4	5
92	Updated measurement of decay-time-dependent CP asymmetries in $D^0 \rightarrow K^+ K^-$ and $D^0 \rightarrow \pi^+ \pi^-$ decays. <i>Physical Review D</i> , 2020 , 101,	4-9	5
91	Search for pair production of scalar leptoquarks decaying into first- or second-generation leptons and top quarks in proton-proton collisions at $(\sqrt{s}) = 13$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2021 , 81, 1	4-2	5
90	Measurement of event-shape observables in [Formula: see text] events in collisions at [Formula: see text] with the ATLAS detector at the LHC. <i>European Physical Journal C</i> , 2016 , 76, 375	4-2	5
89	Measurement of the ratio of branching fractions $(\frac{\mathcal{B}(B \rightarrow J/\psi K^+)}{\mathcal{B}(B \rightarrow J/\psi D^+)})$. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1	5-4	5
88	Measurement of the relative width difference of the $(B^0 \text{ and } \overline{B}^0)$ system with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1	5-4	5
87	Differential cross-section measurements for the electroweak production of dijets in association with a Z boson in proton-proton collisions at ATLAS. <i>European Physical Journal C</i> , 2021 , 81, 1	4-2	5
86	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
85	Observation of $B_s^0 \rightarrow D^+ \pi^-$ and search for $B^0 \rightarrow D^+ \pi^-$ decays. <i>Physical Review D</i> , 2018 , 98,	4-9	5
84	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
83	Search for weakly decaying b-flavored pentaquarks. <i>Physical Review D</i> , 2018 , 97,	4-9	5
82	Measurement of forward $t\bar{t}$, $W+bb$ and $W+cc$ production in pp collisions at $\sqrt{s}=8$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2017 , 767, 110-120	4-2	4
81	Observation of [Formula: see text] and [Formula: see text] decays. <i>European Physical Journal C</i> , 2017 , 77, 72	4-2	4
80	Observation of $B_{(s)}^0 \rightarrow J/\psi p$ Decays and Precision Measurements of the $B_{(s)}^0$ Masses. <i>Physical Review Letters</i> , 2019 , 122, 191804	7-4	4

79	Search for the Rare Decays $B_{s}^{0} \rightarrow e^{+}e^{-}$ and $B^{0} \rightarrow e^{+}e^{-}$. <i>Physical Review Letters</i> , 2020 , 124, 211802	7.4	4
78	Measurement of χ_{cc}^{++} production in pp collisions at $\sqrt{s}=13$ TeV. <i>Chinese Physics C</i> , 2020 , 44, 022001	2.2	4
77	Measurement of CP asymmetry in $B_{s} \rightarrow D^{*}K_{S}^{0}$ decays. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	4
76	Measurement of jet activity in top quark events using the e ^{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
75	Search for B_{c}^{+} decays to two charm mesons. <i>Nuclear Physics B</i> , 2018 , 930, 563-582	2.8	4
74	New algorithms for identifying the flavour of [Formula: see text] mesons using pions and protons. <i>European Physical Journal C</i> , 2017 , 77, 238	4.2	4
73	Evidence for the two-body charmless baryonic decay ($\Lambda_{b}^{+} \rightarrow p \bar{\Lambda}$). <i>Journal of High Energy Physics</i> , 2017 , 2017, 1	5.4	4
72	First Observation of the Rare Purely Baryonic Decay $\Lambda_{b}^{+} \rightarrow p \bar{p}$. <i>Physical Review Letters</i> , 2017 , 119, 232001	7.4	4
71	Measurement of CP observables in $B_{s} \rightarrow DK^{*}$ decays using two- and four-body D final states. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1	5.4	4
70	Updated branching fraction measurements of $B_{s} \rightarrow K_{S}^{0} h^{+}h^{-}$ decays. <i>Journal of High Energy Physics</i> , 2017 , 2017,	5.4	4
69	Study of $B_{s} \rightarrow DK^{*}$ and $B_{s} \rightarrow D^{*}K^{*}$ decays and determination of the CKM angle α <i>Physical Review D</i> , 2015 , 92,	4.9	4
68	First observation and measurement of the branching fraction for the decay $B_{s} \rightarrow D^{*}K_{S}^{0}$. <i>Journal of High Energy Physics</i> , 2015 , 2015, 1	5.4	4
67	Shower development of particles with momenta from 15 GeV to 150 GeV in the CALICE scintillator-tungsten hadronic calorimeter. <i>Journal of Instrumentation</i> , 2015 , 10, P12006-P12006	1	4
66	Alignment of the ATLAS Inner Detector in Run 2. <i>European Physical Journal C</i> , 2020 , 80, 1	4.2	4
65	Improved search for two body muon decay $\mu \rightarrow e + X$. <i>Physical Review D</i> , 2020 , 101,	4.9	4
64	Search for CP violation and observation of P violation in $B_{s} \rightarrow p \bar{p}$ decays. <i>Physical Review D</i> , 2020 , 102,	4.9	4
63	Observation of Multiplicity Dependent Prompt $c(3872)$ and $(\bar{D}S)$ Production in pp Collisions. <i>Physical Review Letters</i> , 2021 , 126, 092001	7.4	4
62	Measurement of the $B_{s} \rightarrow J/\psi$ lifetime. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2016 , 762, 484-492	4.2	4

61	Measurement of the B_c meson production fraction and asymmetry in 7 and 13 TeV pp collisions. <i>Physical Review D</i> , 2019 , 100,	4.9	4
60	Observation of a new B_0 state. <i>Physical Review D</i> , 2021 , 103,	4.9	4
59	Search for dark matter produced in association with a single top quark in ($\sqrt{s}=13$) TeV (pp) collisions with the ATLAS detector. <i>European Physical Journal C</i> , 2021 , 81, 1	4.2	4
58	First branching fraction measurement of the suppressed decay $B_0 \rightarrow \bar{D}^+$. <i>Physical Review D</i> , 2020 , 102,	4.9	3
57	First observation of the rare $B^+ \rightarrow D^+ K^0$ decay. <i>Physical Review D</i> , 2016 , 93,	4.9	3
56	Measurement of the $B_s^0 \rightarrow D_s^{(*)} + D_s^{(*)}$ branching fractions. <i>Physical Review D</i> , 2016 , 93,	4.9	3
55	First observation of the decay $B^0 \rightarrow K^0 K^0$ at LHCb. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1	5.4	3
54	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
53	Bose-Einstein correlations of same-sign charged pions in the forward region in pp collisions at ($\sqrt{s}=7$) TeV. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1	5.4	3
52	Measurement of the k_t splitting scales in $Z \rightarrow \tau\tau$ 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
51	Observation of a New Excited D_{s1}^+ Meson in $B^0 \rightarrow D^+ D_s^- K^0$ Decays. <i>Physical Review Letters</i> , 2021 , 126, 122002	7.4	3
50	Search for heavy neutral leptons in ($W^+ \rightarrow \mu^+ \mu^- + \text{jet}$) decays. <i>European Physical Journal C</i> , 2021 , 81, 1	4.2	3
49	Measurement of the electron reconstruction efficiency at LHCb. <i>Journal of Instrumentation</i> , 2019 , 14, P11023-P11023	1	3
48	Measurement of Charged Hadron Production in Z-Tagged Jets in Proton-Proton Collisions at $\sqrt{s}=8$ TeV. <i>Physical Review Letters</i> , 2019 , 123, 232001	7.4	3
47	Search for long-lived particles decaying to $(e^+ \mu^-)$ $(\mu^+ \mu^-)$ (ν) . <i>European Physical Journal C</i> , 2021 , 81, 1	4.2	3
46	Search for lepton-flavour-violating decays of Higgs-like bosons. <i>European Physical Journal C</i> , 2018 , 78, 1008	4.2	3
45	Search for the doubly heavy baryons Ξ_{cc} and Ξ_{bb} decaying to Λ_c and Λ_b . <i>Chinese Physics C</i> , 2021 , 45, 093002	2.2	3
44	Measurement of the relative $B \rightarrow D^0/D^{*0}$ branching fractions using B mesons from $B \rightarrow D^0 D^{*0}$ decays. <i>Physical Review D</i> , 2019 , 99,	4.9	2

43	Measurement of the CP-violating phase ϕ_1 from $B_s^0 \rightarrow J/\psi \pi^0$ decays in 13 TeV pp collisions. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2019 , 797, 134789	4.2	2
42	Search for CP Violation in $D_{s1}^+ \rightarrow K_S^0 \pi^+$, $D^+ \rightarrow K_S^0 K^+$, and $D^+ \rightarrow \pi^+ \pi^0$ Decays. <i>Physical Review Letters</i> , 2019 , 122, 191803	7.4	2
41	Measurement of the ratio of branching fractions and difference in CP asymmetries of the decays $B^+ \rightarrow J/\psi \pi^+$ and $B^+ \rightarrow J/\psi K^+$. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1	5.4	2
40	On model-independent searches for direct CP violation in multi-body decays. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2017 , 44, 085001	2.9	2
39	Observation of the $B^+ \rightarrow D^* K^+$ decay. <i>Physical Review D</i> , 2017 , 96,	4.9	2
38	Measurement of CP violation in $B^0 \rightarrow J/\psi K_S^0$ and $B^0 \rightarrow \psi(2S) K_S^0$ decays. <i>Journal of High Energy Physics</i> , 2017 , 2017,	5.4	2
37	Analysis of Neutral B-Meson Decays into Two Muons.. <i>Physical Review Letters</i> , 2022 , 128, 041801	7.4	2
36	Isospin Amplitudes in $\bar{B}^0 \rightarrow J/\psi \pi^0$ and $\bar{B}^0 \rightarrow J/\psi \pi^0 \pi^0$ Decays. <i>Physical Review Letters</i> , 2020 , 124, 111802	7.4	2
35	Search for three body pion decays $B^+ \rightarrow l^+ \pi^0$. <i>Physical Review D</i> , 2021 , 103,	4.9	2
34	Measurement of (W^{\pm}) -boson and Z-boson production cross-sections in pp collisions at $\sqrt{s}=2.76$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2019 , 79, 1	4.2	2
33	Measurement of CP-Violating and Mixing-Induced Observables in $B_{s1}^0 \rightarrow \pi^0 \pi^0$ Decays. <i>Physical Review Letters</i> , 2019 , 123, 081802	7.4	2
32	Measurement of CP violation in $B^0 \rightarrow D^+ \pi^-$ decays. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	2
31	Observation of new excited $B^0_{(s)}$ states. <i>European Physical Journal C</i> , 2021 , 81,	4.2	2
30	Search for CP violation in $B^0 \rightarrow \rho^0 K^0$ decays. <i>Physical Review D</i> , 2021 , 104,	4.9	2
29	Measurement of the branching fraction of the decay $B_s^0 \rightarrow K_S^0 K_S^0$. <i>Physical Review D</i> , 2020 , 102,	4.9	1
28	First observation of the decay $B^0 \rightarrow D^0 D^+ K^-$. <i>Physical Review D</i> , 2020 , 102,	4.9	1
27	First observation of forward $Z \rightarrow b\bar{b}$ production in pp collisions at $s=8$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2018 , 776, 430-439	4.2	1
26	Radiation Damage Effects and Operation of the LHCb Vertex Locator. <i>IEEE Transactions on Nuclear Science</i> , 2018 , 65, 1127-1132	1.7	1

25	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
24	Search for the $B \rightarrow \tau \nu$ decay. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1	5.4	1
23	Search for Baryon-Number Violating $[b]^0$ Oscillations. <i>Physical Review Letters</i> , 2017 , 119, 181807	7.4	1
22	Measurement of the $B_s \rightarrow \mu \mu$ decay properties and search for the $B \rightarrow \mu \mu$ and $B_s \rightarrow \mu \mu$ decays. <i>Physical Review D</i> , 2022 , 105,	4.9	1
21	Measurement of the relative branching fractions of $B \rightarrow h h$ decays. <i>Physical Review D</i> , 2020 , 102,	4.9	1
20	Search for top squarks in events with a Higgs or Z boson using 139 fb ⁻¹ of pp collision data at $\sqrt{s} = 13$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2020 , 80, 1	4.2	1
19	Observation of Enhanced Double Parton Scattering in Proton-Lead Collisions at $\sqrt{s_{NN}} = 8.16$ TeV. <i>Physical Review Letters</i> , 2020 , 125, 212001	7.4	1
18	Search for the rare decay $B \rightarrow J/\psi^*$. <i>Chinese Physics C</i> , 2021 , 45, 043001	2.2	1
17	Development of a Highly Granular Silicon-Tungsten ECAL for the ILD. <i>Nuclear and Particle Physics Proceedings</i> , 2016 , 273-275, 2554-2556	0.4	1
16	Measurement of the CP asymmetry in $B \rightarrow D \bar{D}$ and $B \rightarrow D D$ decays. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	1
15	Search for tens of MeV neutrinos associated with gamma-ray bursts in Super-Kamiokande. <i>Progress of Theoretical and Experimental Physics</i> ,	5.4	1
14	Measurements of the inclusive and differential production cross sections of a top-quark antiquark pair in association with a Z boson at $\sqrt{s} = 13$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2021 , 81, 1	4.2	1
13	Configuration and performance of the ATLAS b-jet triggers in Run 2. <i>European Physical Journal C</i> , 2021 , 81, 1	4.2	1
12	Determination of the parton distribution functions of the proton using diverse ATLAS data from pp collisions at $\sqrt{s} = 7, 8$ and 13 TeV. <i>European Physical Journal C</i> , 2022 , 82, 1	4.2	1
11	Observation of electroweak production of two jets in association with an isolated photon and missing transverse momentum, and search for a Higgs boson decaying into invisible particles at $\sqrt{s} = 13 \text{ TeV}$ with the ATLAS detector. <i>European Physical Journal C</i> , 2022 , 82, 1	4.2	0
10	Evidence for a New Structure in the J/ψ and J/ψ Systems in $B \rightarrow J/\psi p$ Decays. <i>Physical Review Letters</i> , 2022 , 128, 062001	7.4	0
9	First measurement of the (CP)-violating phase in $(B \rightarrow J/\psi) \rightarrow (e^+ e^-)(\phi)$ decays. <i>European Physical Journal C</i> , 2021 , 81, 1	4.2	0
8	Observation of the $B \rightarrow K^* K^*$ decay. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2021 , 815, 136172	4.2	0

7	Search for the doubly charmed baryon Ξ_{cc} . <i>Science China: Physics, Mechanics and Astronomy</i> , 2021 , 64, 1	3.6	o
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3	Measurement of the energy response of the ATLAS calorimeter to charged pions from $W^{\pm} \rightarrow \tau^{\pm} \rightarrow \pi^{\pm} \nu_{\tau} \nu_{\tau}$ events in Run2 data. <i>European Physical Journal C</i> , 2022 , 82, 1	4.2	o
2	Observation of Two New Excited $\Xi_{b}^{(0)}$ States Decaying to $\Xi_{b}^{(0)} K^{\pm} \pi^{\pm}$.. <i>Physical Review Letters</i> , 2022 , 128, 162001	7.4	o
1	Search for matter-antimatter asymmetries in multi-body decays with GPUs. <i>Journal of Physics: Conference Series</i> , 2015 , 664, 072010	0.3	