

Steven D Worm

List of Publications by Citations

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924
papers

44,405
citations

92
h-index

166
g-index

954
ext. papers

49,411
ext. citations

5
avg, IF

6.57
L-index

#	Paper	IF	Citations
924	Observation of a new boson at a mass of 125 GeV with the CMS experiment at the LHC. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2012 , 716, 30-61	4.2	5161
923	Combined Measurement of the Higgs Boson Mass in pp Collisions at $\sqrt{s}=7$ and 8 TeV with the ATLAS and CMS Experiments. <i>Physical Review Letters</i> , 2015 , 114, 191803	7.4	709
922	Determination of jet energy calibration and transverse momentum resolution in CMS. <i>Journal of Instrumentation</i> , 2011 , 6, P11002-P11002	1	463
921	Observation of long-range, near-side angular correlations in pPb collisions at the LHC. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2013 , 718, 795-814	4.2	452
920	Combined results of searches for the standard model Higgs boson in pp collisions at . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2012 , 710, 26-48	4.2	437
919	Precise determination of the mass of the Higgs boson and tests of compatibility of its couplings with the standard model predictions using proton collisions at 7 and 8 [Formula: see text]. <i>European Physical Journal C</i> , 2015 , 75, 212	4.2	399
918	Performance of CMS muon reconstruction in pp collision events at $\sqrt{s} = 7$ TeV. <i>Journal of Instrumentation</i> , 2012 , 7, P10002-P10002	1	398
917	Observation and studies of jet quenching in PbPb collisions at $\sqrt{s_{NN}}=2.76$ TeV. <i>Physical Review C</i> , 2011 , 84,	2.7	395
916	Observation of long-range, near-side angular correlations in proton-proton collisions at the LHC. <i>Journal of High Energy Physics</i> , 2010 , 2010, 1	5.4	389
915	Identification of b-quark jets with the CMS experiment. <i>Journal of Instrumentation</i> , 2013 , 8, P04013-P04013		376
914	Performance of electron reconstruction and selection with the CMS detector in proton-proton collisions at $\sqrt{s} = 8$ TeV. <i>Journal of Instrumentation</i> , 2015 , 10, P06005-P06005	1	357
913	Transverse-momentum and pseudorapidity distributions of charged hadrons in pp collisions at square root of s = 7 TeV. <i>Physical Review Letters</i> , 2010 , 105, 022002	7.4	353
912	Observation of the rare $B(s)(0) \rightarrow \mu^+ \mu^-$ decay from the combined analysis of CMS and LHCb data. <i>Nature</i> , 2015 , 522, 68-72	50.4	326
911	Study of high-p T charged particle suppression in PbPb compared to pp collisions at ($\sqrt{s_{\mathrm{NN}}}=2.76\sim\mathrm{TeV}$). <i>European Physical Journal C</i> , 2012 , 72, 1	4.2	316
910	Multiplicity and transverse momentum dependence of two- and four-particle correlations in pPb and PbPb collisions. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2013 , 724, 213-240	4.2	315
909	Description and performance of track and primary-vertex reconstruction with the CMS tracker. <i>Journal of Instrumentation</i> , 2014 , 9, P10009-P10009	1	279
908	J/ψ and ψ(2S) Production in pp Collisions at $\sqrt{s}=1.8$ TeV. <i>Physical Review Letters</i> , 1997 , 79, 572-577	7.4	278

907	Performance of the ATLAS trigger system in 2015. <i>European Physical Journal C</i> , 2017 , 77, 317	4.2	272
906	Observation of a new boson with mass near 125 GeV in pp collisions at ($\sqrt{s}=7$) and 8 TeV. <i>Journal of High Energy Physics</i> , 2013 , 2013, 1	5.4	261
905	Measurement of the properties of a Higgs boson in the four-lepton final state. <i>Physical Review D</i> , 2014 , 89,	4.9	260
904	Search for dark matter, extra dimensions, and unparticles in monojet events in proton-proton collisions at [Formula: see text][Formula: see text]. <i>European Physical Journal C</i> , 2015 , 75, 235	4.2	250
903	Event generator tunes obtained from underlying event and multiparton scattering measurements. <i>European Physical Journal C</i> , 2016 , 76, 155	4.2	250
902	Observation of the Bc Meson in pp Collisions at $\sqrt{s}=1.8$ TeV. <i>Physical Review Letters</i> , 1998 , 81, 2432-2437	7.4	242
901	Observation of the diphoton decay of the Higgs boson and measurement of its properties. <i>European Physical Journal C</i> , 2014 , 74, 3076	4.2	239
900	Study of the mass and spin-parity of the Higgs boson candidate via its decays to Z boson pairs. <i>Physical Review Letters</i> , 2013 , 110, 081803	7.4	235
899	Production of J/ψ Mesons from B Meson Decays in pp Collisions at $\sqrt{s}=1.8$ TeV. <i>Physical Review Letters</i> , 1997 , 79, 578-583	7.4	221
898	Measurement of the $B_s(0) \rightarrow \mu^+ \mu^-$ branching fraction and search for $B(0) \rightarrow \mu^+ \mu^-$ with the CMS experiment. <i>Physical Review Letters</i> , 2013 , 111, 101804	7.4	220
897	The CMS trigger system. <i>Journal of Instrumentation</i> , 2017 , 12, P01020-P01020	1	210
896	Transverse-momentum and pseudorapidity distributions of charged hadrons in pp collisions at ($\sqrt{s} = 0.9$) and 2.36 TeV. <i>Journal of High Energy Physics</i> , 2010 , 2010, 1	5.4	201
895	Double parton scattering in p-p collisions at $s=1.8$ TeV. <i>Physical Review D</i> , 1997 , 56, 3811-3832	4.9	199
894	Simplified models for dark matter searches at the LHC. <i>Physics of the Dark Universe</i> , 2015 , 9-10, 8-23	4.4	196
893	Search for supersymmetry at the LHC in events with jets and missing transverse energy. <i>Physical Review Letters</i> , 2011 , 107, 221804	7.4	188
892	Suppression of non-prompt J/ψ and (Υ)(1S) in PbPb collisions at ($\sqrt{s_{NN}} = 2.76$) TeV. <i>Journal of High Energy Physics</i> , 2012 , 2012, 1	5.4	184
891	Searches for electroweak production of charginos, neutralinos, and sleptons decaying to leptons and W, Z, and Higgs bosons in pp collisions at 8 TeV. <i>European Physical Journal C</i> , 2014 , 74, 3036	4.2	183
890	Search for lepton-flavour-violating decays of the Higgs boson. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2015 , 749, 337-362	4.2	175

889	Observation of Bc mesons in pp collisions at $\sqrt{s}=1.8\text{TeV}$. <i>Physical Review D</i> , 1998 , 58,	4.9	173
888	Measurement of J/psi and psi(2S) polarization in pp collisions at $\sqrt{s} = 1.8\text{TeV}$. <i>Physical Review Letters</i> , 2000 , 85, 2886-91	7.4	171
887	Search for supersymmetry in pp collisions at 7 TeV in events with jets and missing transverse energy. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2011 , 698, 196-218	4.2	166
886	Search for top-squark pair production in the single-lepton final state in pp collisions at ($\sqrt{s}=8\text{TeV}$). <i>European Physical Journal C</i> , 2013 , 73, 1	4.2	162
885	Centrality dependence of dihadron correlations and azimuthal anisotropy harmonics in PbPb collisions at ($\sqrt{s_{NN}}=2.76\text{TeV}$). <i>European Physical Journal C</i> , 2012 , 72, 1	4.2	158
884	Search for dark matter and large extra dimensions in monojet events in pp collisions at ($\sqrt{s} = 7$) TeV. <i>Journal of High Energy Physics</i> , 2012 , 2012, 1	5.4	155
883	Search for resonances and quantum black holes using dijet mass spectra in proton-proton collisions at $\sqrt{s}=8\text{TeV}$. <i>Physical Review D</i> , 2015 , 91,	4.9	152
882	Jet energy scale and resolution in the CMS experiment in pp collisions at 8 TeV. <i>Journal of Instrumentation</i> , 2017 , 12, P02014-P02014	1	149
881	Search for heavy neutrinos and [Formula: see text] bosons with right-handed couplings in proton-proton collisions at [Formula: see text]. <i>European Physical Journal C</i> , 2014 , 74, 3149	4.2	149
880	Measurement of the elliptic anisotropy of charged particles produced in PbPb collisions at $\sqrt{s_{NN}}=2.76\text{TeV}$. <i>Physical Review C</i> , 2013 , 87,	2.7	148
879	Evidence for Collective Multiparticle Correlations in p-Pb Collisions. <i>Physical Review Letters</i> , 2015 , 115, 012301	7.4	145
878	Search for the standard model Higgs boson produced in association with a W or a Z boson and decaying to bottom quarks. <i>Physical Review D</i> , 2014 , 89,	4.9	145
877	Jet momentum dependence of jet quenching in PbPb collisions at $\sqrt{s_{NN}}=2.76\text{TeV}$. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2012 , 712, 176-197	4.2	144
876	Measurement of Higgs boson production and properties in the WW decay channel with leptonic final states. <i>Journal of High Energy Physics</i> , 2014 , 2014, 1	5.4	144
875	Constraints on the spin-parity and anomalous HVV couplings of the Higgs boson in proton collisions at 7 and 8 TeV. <i>Physical Review D</i> , 2015 , 92,	4.9	142
874	Performance of photon reconstruction and identification with the CMS detector in proton-proton collisions at $\sqrt{s}=8\text{TeV}$. <i>Journal of Instrumentation</i> , 2015 , 10, P08010-P08010	1	141
873	Search for New Gauge Bosons Decaying into Dileptons in pp Collisions at $\sqrt{s}=1.8\text{TeV}$. <i>Physical Review Letters</i> , 1997 , 79, 2192-2197	7.4	140
872	Search for the standard model Higgs boson decaying into two photons in pp collisions at $\sqrt{s}=7\text{TeV}$. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2012 , 710, 403-425	4.2	138

871	Indications of suppression of excited \mathbb{B} states in Pb-Pb collisions at $\sqrt{s_{NN}}=2.76$ TeV. <i>Physical Review Letters</i> , 2011 , 107, 052302	7.4	137
870	Study of the inclusive production of charged pions, kaons, and protons in pp collisions at $(\sqrt{s} = 0.9, 2.76, \sqrt{s} \sim 7 \text{ TeV})$. <i>European Physical Journal C</i> , 2012 , 72, 1	4.2	133
869	Search for invisible decays of Higgs bosons in the vector boson fusion and associated ZH production modes. <i>European Physical Journal C</i> , 2014 , 74, 2980	4.2	131
868	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
867	Charged jet evolution and the underlying event in proton-antiproton collisions at 1.8 TeV. <i>Physical Review D</i> , 2002 , 65,	4.9	125
866	Modification of jet shapes in PbPb collisions at $s_{NN}=2.76$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2014 , 730, 243-263	4.2	124
865	Search for Flavor-Changing Neutral Current Decays of the Top Quark in pp Collisions at $s=1.8$ TeV. <i>Physical Review Letters</i> , 1998 , 80, 2525-2530	7.4	124
864	Measurement of the inclusive W and Z production cross sections in pp collisions at $(\sqrt{s} = 7)$ TeV with the CMS experiment. <i>Journal of High Energy Physics</i> , 2011 , 2011, 1	5.4	121
863	Prompt and non-prompt J/ ψ production in pp collisions at $(\sqrt{s} = 7)$ TeV. <i>European Physical Journal C</i> , 2011 , 71, 1	4.2	118
862	Constraints on the Higgs boson width from off-shell production and decay to Z-boson pairs. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2014 , 736, 64-85	4.2	116
861	Search for dark matter and large extra dimensions in pp collisions yielding a photon and missing transverse energy. <i>Physical Review Letters</i> , 2012 , 108, 261803	7.4	116
860	Search for diphoton resonances in the mass range from 150 to 850 GeV in pp collisions at $s=8$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2015 , 750, 494-519	4.2	113
859	Measurement of isolated photon production in pp and PbPb collisions at $s_{NN}=2.76$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2012 , 710, 256-277	4.2	111
858	Search for neutral Higgs bosons decaying to tau pairs in pp collisions at $s=7$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2012 , 713, 68-90	4.2	111
857	A search for a doubly-charged Higgs boson in pp collisions at $(\sqrt{s} = 7 \text{ TeV})$. <i>European Physical Journal C</i> , 2012 , 72, 1	4.2	111
856	Energy calibration and resolution of the CMS electromagnetic calorimeter in pp collisions at $\sqrt{s} = 7$ TeV. <i>Journal of Instrumentation</i> , 2013 , 8, P09009-P09009	1	111
855	Search for resonances in the dijet mass spectrum from 7 TeV pp collisions at CMS. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2011 , 704, 123-142	4.2	111
854	Search for new physics in the multijet and missing transverse momentum final state in proton-proton collisions at $\sqrt{s} = 7$ TeV. <i>Physical Review Letters</i> , 2012 , 109, 171803	7.4	111

853	Measurement of higher-order harmonic azimuthal anisotropy in PbPb collisions at $\sqrt{s_{NN}}=2.76$ TeV. <i>Physical Review C</i> , 2014 , 89,	2.7	109
852	Studies of jet quenching using isolated-photon + jet correlations in PbPb and pp collisions at $\sqrt{s_{NN}}=2.76$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2013 , 718, 773-794	4.2	109
851	Diffractive dijets with a leading antiproton in $p\bar{p}$ collisions at \sqrt{s} . <i>Physical Review Letters</i> , 2000 , 84, 5043-8	7.4	105
850	Evidence for transverse-momentum- and pseudorapidity-dependent event-plane fluctuations in PbPb and pPb collisions. <i>Physical Review C</i> , 2015 , 92,	2.7	104
849	Measurements of inclusive W and Z cross sections in pp collisions at ($\sqrt{s} = 7$) TeV. <i>Journal of High Energy Physics</i> , 2011 , 2011, 1	5.4	104
848	Inclusive search for a vector-like T quark with charge . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2014 , 729, 149-171	4.2	103
847	Measurement of differential top-quark-pair production cross sections in pp collisions at ($\sqrt{s} = 7$ TeV). <i>European Physical Journal C</i> , 2013 , 73, 1	4.2	102
846	Evidence for the 125 GeV Higgs boson decaying to a pair of τ leptons. <i>Journal of High Energy Physics</i> , 2014 , 2014, 1	5.4	101
845	Search for a light charged Higgs boson in top quark decays in pp collisions at ($\sqrt{s} = 7$; TeV). <i>Journal of High Energy Physics</i> , 2012 , 2012, 1	5.4	101
844	Transverse momentum and total cross section of $e^{+}e^{-}$ pairs in the Z-boson region from $p\bar{p}$ collisions at \sqrt{s} . <i>Physical Review Letters</i> , 2000 , 84, 845-50	7.4	101
843	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
842	Measurement of $\sin 2\beta$ from $B \rightarrow J/\psi S_0$ with the CDF detector. <i>Physical Review D</i> , 2000 , 61,	4.9	100
841	CMS tracking performance results from early LHC operation. <i>European Physical Journal C</i> , 2010 , 70, 1165-1192	4.9	99
840	Measurement of the differential cross section for top quark pair production in pp collisions at [Formula: see text]. <i>European Physical Journal C</i> , 2015 , 75, 542	4.2	98
839	Search for new particles decaying to dijets at CDF. <i>Physical Review D</i> , 1997 , 55, R5263-R5268	4.9	98
838	Production of Upsilon(1S) mesons from $\chi(b)$ decays in $p\bar{p}$ collisions at \sqrt{s} . <i>Physical Review Letters</i> , 2000 , 84, 2094-9	7.4	97
837	Search for Narrow Resonances Decaying to Dijets in Proton-Proton Collisions at $\sqrt{s}=13$ TeV. <i>Physical Review Letters</i> , 2016 , 116, 071801	7.4	96
836	Searches for long-lived charged particles in pp collisions at ($\sqrt{s} = 7$ and 8 TeV). <i>Journal of High Energy Physics</i> , 2013 , 2013, 1	5.4	96

835	Azimuthal anisotropy of charged particles at high transverse momenta in Pb-Pb collisions at $\sqrt{s_{NN}} = 2.76$ TeV. <i>Physical Review Letters</i> , 2012 , 109, 022301	7.4	95
834	Measurement of Double Parton Scattering in $p\bar{p}$ Collisions at $\sqrt{s}=1.8$ TeV. <i>Physical Review Letters</i> , 1997 , 79, 584-589	7.4	95
833	Missing transverse energy performance of the CMS detector. <i>Journal of Instrumentation</i> , 2011 , 6, P09001-P09004		
832	Measurement of the Inelastic Proton-Proton Cross Section at $\sqrt{s}=13$ TeV with the ATLAS Detector at the LHC. <i>Physical Review Letters</i> , 2016 , 117, 182002	7.4	92
831	Search for supersymmetry in hadronic final states using M T2 in pp collisions at ($\sqrt{s}=7$) TeV. <i>Journal of High Energy Physics</i> , 2012 , 2012, 1	5.4	92
830	Measurement of Long-Range Near-Side Two-Particle Angular Correlations in pp Collisions at $\sqrt{s}=13$ TeV. <i>Physical Review Letters</i> , 2016 , 116, 172302	7.4	90
829	Measurement of jet fragmentation in PbPb and pp collisions at $\sqrt{s_{NN}}=2.76$ TeV. <i>Physical Review C</i> , 2014 , 90,	2.7	89
828	Charged particle multiplicities in pp interactions at ($\sqrt{s} = 0.9$), 2.36, and 7 TeV. <i>Journal of High Energy Physics</i> , 2011 , 2011, 1	5.4	89
827	Dependence on pseudorapidity and on centrality of charged hadron production in PbPb collisions at ($\sqrt{s_{NN}} = 2.76$) TeV. <i>Journal of High Energy Physics</i> , 2011 , 2011, 1	5.4	87
826	Search for Charged Higgs Boson Decays of the Top Quark using Hadronic Decays of the Tau Lepton. <i>Physical Review Letters</i> , 1997 , 79, 357-362	7.4	87
825	Measurement of $W+W$ production and search for the Higgs boson in pp collisions at $\sqrt{s}=7$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2011 , 699, 25-47	4.2	86
824	Search for the standard model Higgs boson in the decay channel $H \rightarrow ZZ \rightarrow 4\ell$ in pp collisions at $\sqrt{s}=7$ TeV. <i>Physical Review Letters</i> , 2012 , 108, 111804	7.4	85
823	Performance of the CMS missing transverse momentum reconstruction in pp data at $\sqrt{s} = 8$ TeV. <i>Journal of Instrumentation</i> , 2015 , 10, P02006-P02006	1	84
822	Search for long-lived neutral particles decaying to quark-antiquark pairs in proton-proton collisions at $\sqrt{s}=8$ TeV. <i>Physical Review D</i> , 2015 , 91,	4.9	83
821	Observation of a peaking structure in the J/ψ mass spectrum from $B \rightarrow J/\psi K$ decays. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2014 , 734, 261-281	4.2	83
820	Search for the standard model Higgs boson decaying to $\tau\tau$. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2012 , 710, 91-113	4.2	83
819	Measurement of the prompt τ . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2013 , 727, 381-402	4.2	83
818	Search for supersymmetry in hadronic final states with missing transverse energy using the variables M_{T2} and b -quark multiplicity in pp collisions at $\sqrt{s}=7$ TeV. <i>European Physical Journal C</i> , 2013 , 73, 2568	4.2	82

817	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
816	Search for new physics in the multijet and missing transverse momentum final state in proton-proton collisions at (\sqrt{s}) = 8 TeV. <i>Journal of High Energy Physics</i> , 2014 , 2014, 1	5.4	81
815	Performance of \bar{q} -lepton reconstruction and identification in CMS. <i>Journal of Instrumentation</i> , 2012 , 7, P01001-P01001	1	81
814	First measurement of the cross section for top-quark pair production in proton-proton collisions at $s=7$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2011 , 695, 424-443	4.2	79
813	Search for resonant pair production of Higgs bosons decaying to two bottom quark-antiquark pairs in proton-proton collisions at 8 TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2015 , 749, 560-582	4.2	78
812	Search for heavy narrow dilepton resonances in pp collisions at . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2013 , 720, 63-82	4.2	78
811	Strange particle production in pp collisions at (\sqrt{s} = 0.9) and 7 TeV. <i>Journal of High Energy Physics</i> , 2011 , 2011, 1	5.4	78
810	Observation of Diffractive W-Boson Production at the Fermilab Tevatron. <i>Physical Review Letters</i> , 1997 , 78, 2698-2703	7.4	78
809	Measurement of the rapidity and transverse momentum distributions of Z bosons in pp collisions at (s)=7 TeV. <i>Physical Review D</i> , 2012 , 85,	4.9	77
808	Upsilon production cross section in pp collisions at $s=7$ TeV. <i>Physical Review D</i> , 2011 , 83,	4.9	77
807	Study of W boson production in PbPb and pp collisions at $s_{NN}=2.76$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2012 , 715, 66-87	4.2	76
806	Reconstruction and identification of τ lepton decays to hadrons and $\bar{\nu}_\tau$ at CMS. <i>Journal of Instrumentation</i> , 2016 , 11, P01019-P01019	1	75
805	Search for massive resonances in dijet systems containing jets tagged as W or Z boson decays in pp collisions at (\sqrt{s}) = 8 TeV. <i>Journal of High Energy Physics</i> , 2014 , 2014, 1	5.4	74
804	Measurement of the inelastic proton-proton cross section at $s=7$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2013 , 722, 5-27	4.2	74
803	The performance of the CMS muon detector in proton-proton collisions at $\sqrt{s}=7$ TeV at the LHC. <i>Journal of Instrumentation</i> , 2013 , 8, P11002-P11002	1	74
802	Search for a Higgs boson decaying into a Z and a photon in pp collisions at . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2013 , 726, 587-609	4.2	73
801	Search for a Higgs boson in the mass range from 145 to 1000 GeV decaying to a pair of W or Z bosons. <i>Journal of High Energy Physics</i> , 2015 , 2015, 1	5.4	73
800	Measurement of jet fragmentation into charged particles in pp and PbPb collisions at ($\sqrt{s_{\mathit{NN}}}$) = 2.76) TeV. <i>Journal of High Energy Physics</i> , 2012 , 2012, 1	5.4	73

799	Measurement of the Top Quark Mass. <i>Physical Review Letters</i> , 1998 , 80, 2767-2772	7.4	73
798	Measurement of the Top Quark Mass and $t\bar{t}$ Production Cross Section from Dilepton Events at the Collider Detector at Fermilab. <i>Physical Review Letters</i> , 1998 , 80, 2779-2784	7.4	73
797	Measurement of the $W+W$ and ZZ production cross sections in pp collisions at $s=8$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2013 , 721, 190-211	4.2	72
796	Measurement of the total cross section from elastic scattering in pp collisions at $s=8$ TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2016 , 761, 158-178	4.2	72
795	Study of the production of charged pions, kaons, and protons in pPb collisions at [Formula: see text]5.02[Formula: see text]. <i>European Physical Journal C</i> , 2014 , 74, 2847	4.2	71
794	A new boson with a mass of 125 GeV observed with the CMS experiment at the Large Hadron Collider. <i>Science</i> , 2012 , 338, 1569-75	33.3	71
793	Measurement of the μS , $\mu\bar{S}$, and $\bar{S}S$ polarizations in pp collisions at $\sqrt{s} = 7$ TeV. <i>Physical Review Letters</i> , 2013 , 110, 081802	7.4	71
792	Search for neutral MSSM Higgs bosons decaying to a pair of tau leptons in pp collisions. <i>Journal of High Energy Physics</i> , 2014 , 2014, 1	5.4	70
791	Measurement of the single-top-quark t-channel cross section in pp collisions at ($\sqrt{s}=7$) TeV. <i>Journal of High Energy Physics</i> , 2012 , 2012, 1	5.4	70
790	Measurement of the underlying event activity at the LHC with ($\sqrt{s} = 7$) TeV and comparison with ($\sqrt{s} = 0.9$) TeV. <i>Journal of High Energy Physics</i> , 2011 , 2011, 1	5.4	70
789	Search for physics beyond the standard model in dilepton mass spectra in proton-proton collisions at ($\sqrt{s}=8$) TeV. <i>Journal of High Energy Physics</i> , 2015 , 2015, 1	5.4	69
788	Measurement of the top quark mass using proton-proton data at ($s=7$ and 8 TeV. <i>Physical Review D</i> , 2016 , 93,	4.9	69
787	J/ψ and $\psi(2S)$ production in pp collisions at ($\sqrt{s} = 7$ {text{TeV}}). <i>Journal of High Energy Physics</i> , 2012 , 2012, 1	5.4	69
786	Measurement of Diffractive Dijet Production at the Fermilab Tevatron. <i>Physical Review Letters</i> , 1997 , 79, 2636-2641	7.4	69
785	Limits on Quark-Lepton Compositeness Scales from Dileptons Produced in 1.8 TeV pp Collisions. <i>Physical Review Letters</i> , 1997 , 79, 2198-2203	7.4	68
784	Studies of dijet transverse momentum balance and pseudorapidity distributions in pPb collisions at ($\sqrt{s_{\mathbb{N}\mathbb{N}}} = 5.02$) (,text{TeV}). <i>European Physical Journal C</i> , 2014 , 74, 1	4.2	67
783	Search for vectorlike charge 2/3 T quarks in proton-proton collisions at ($s=8$ TeV. <i>Physical Review D</i> , 2016 , 93,	4.9	66
782	Study of Z Boson Production in PbPb Collisions at $\sqrt{s_{\mathbb{N}\mathbb{N}}}=2.76$ TeV. <i>Physical Review Letters</i> , 2011 , 106, 212301	7.4	66

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780	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
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775	Search for anomalous production of events with three or more leptons in pp collisions at $s=8$ TeV. <i>Physical Review D</i> , 2014 , 90,	4.9	64
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771	Search for narrow resonances using the dijet mass spectrum in pp collisions at $s=8$ TeV. <i>Physical Review D</i> , 2013 , 87,	4.9	63
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768	Search for long-lived particles that decay into final states containing two electrons or two muons in proton-proton collisions at $s=8$ TeV. <i>Physical Review D</i> , 2015 , 91,	4.9	62
767	Study of vector boson scattering and search for new physics in events with two same-sign leptons and two jets. <i>Physical Review Letters</i> , 2015 , 114, 051801	7.4	62
766	Observation of the associated production of a single top quark and a W boson in pp collisions at $\sqrt{s} = 8$ TeV. <i>Physical Review Letters</i> , 2014 , 112, 231802	7.4	62
765	Search for pair-produced resonances decaying to jet pairs in proton-proton collisions at $s=8$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2015 , 747, 98-119	4.2	62
764	Searches for electroweak neutralino and chargino production in channels with Higgs, Z, and W bosons in pp collisions at 8 TeV. <i>Physical Review D</i> , 2014 , 90,	4.9	62

763	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
762	Study of double parton scattering using W + 2-jet events in proton-proton collisions at $(\sqrt{s}) = 7$ TeV. <i>Journal of High Energy Physics</i> , 2014 , 2014, 1	5.4	61
761	Search for physics beyond the standard model in final states with a lepton and missing transverse energy in proton-proton collisions at $s=8$ TeV. <i>Physical Review D</i> , 2015 , 91,	4.9	61
760	Search for a charged Higgs boson in pp collisions at $(\sqrt{s}=8)$ TeV. <i>Journal of High Energy Physics</i> , 2015 , 2015, 1	5.4	61
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758	First Observation of the All-Hadronic Decay of $t\bar{t}$ Pairs. <i>Physical Review Letters</i> , 1997 , 79, 1992-1997	7.4	61
757	Studies of azimuthal dihadron correlations in ultra-central PbPb collisions at $(\sqrt{s_{NN}}) = 2.76$ TeV. <i>Journal of High Energy Physics</i> , 2014 , 2014, 1	5.4	60
756	Search for a standard model-like Higgs boson in the $\mu\mu$ and $e+e\mu$ decay channels at the LHC. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2015 , 744, 184-207	4.2	59
755	Measurement of the Z -boson mass in pp collisions at with the ATLAS detector. <i>European Physical Journal C</i> , 2018 , 78, 110	4.2	59
754	Search for massive resonances decaying into pairs of boosted bosons in semi-leptonic final states at $(\sqrt{s}) = 8$ TeV. <i>Journal of High Energy Physics</i> , 2014 , 2014, 1	5.4	59
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752	Search for narrow resonances in dilepton mass spectra in pp collisions at . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2012 , 714, 158-179	4.2	59
751	Measurement of the $B(+) $ production cross section in pp collisions at $\sqrt{s}=7$ TeV. <i>Physical Review Letters</i> , 2011 , 106, 112001	7.4	59
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748	Angular analysis of the decay $B^0 \rightarrow K^* \mu\mu$ from pp collisions at $s=8$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2016 , 753, 424-448	4.2	59
747	Search for heavy Majorana neutrinos in $\mu\mu +$ jets events in proton-proton collisions at $s=8$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2015 , 748, 144-166	4.2	58
746	Search for top-quark partners with charge 5/3 in the same-sign dilepton final state. <i>Physical Review Letters</i> , 2014 , 112, 171801	7.4	58

745	Search for top-squark pairs decaying into Higgs or Z bosons in pp collisions at $\sqrt{s}=8$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2014 , 736, 371-397	4-2	57
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743	Search for anomalous ($\overline{t}t$) production in the highly-boosted all-hadronic final state. <i>Journal of High Energy Physics</i> , 2012 , 2012, 1	5-4	57
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740	Observation of a new Λ_b baryon. <i>Physical Review Letters</i> , 2012 , 108, 252002	7-4	57
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738	Measurement of the $W+W$ cross section in pp collisions at $(\sqrt{s}=7)$ TeV and limits on anomalous WW and WWZ couplings. <i>European Physical Journal C</i> , 2013 , 73, 1	4-2	56
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734	Search for a standard model Higgs boson produced in association with a top-quark pair and decaying to bottom quarks using a matrix element method. <i>European Physical Journal C</i> , 2015 , 75, 251	4-2	55
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732	Measurement of the pseudorapidity and centrality dependence of the transverse energy density in Pb-Pb collisions at $(\sqrt{s_{NN}})=2.76$ TeV. <i>Physical Review Letters</i> , 2012 , 109, 152303	7-4	55
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730	Search for heavy long-lived charged particles in pp collisions at $\sqrt{s}=7$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2012 , 713, 408-433	4-2	54
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728	Search for signatures of extra dimensions in the diphoton mass spectrum at the large hadron collider. <i>Physical Review Letters</i> , 2012 , 108, 111801	7-4	53

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724	A search for pair production of new light bosons decaying into muons. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2016 , 752, 146-168	4.2	51
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721	Search for supersymmetry in pp collisions at . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2014 , 733, 328-353	4.2	50
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708	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
707	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
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703	Measurement of multi-particle azimuthal correlations in pp, p \bar{p} Pb and low-multiplicity Pb \bar{p} Pb collisions with the ATLAS detector. <i>European Physical Journal C</i> , 2017 , 77, 428	4.2	48
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701	Measurement of the ($t\bar{t}$) production cross section and the top quark mass in the dilepton channel in pp collisions at ($\sqrt{s} = 7$) TeV. <i>Journal of High Energy Physics</i> , 2011 , 2011, 1	5.4	48
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699	Dijet azimuthal decorrelations in pp collisions at $\sqrt{s}=7$ TeV. <i>Physical Review Letters</i> , 2011 , 106, 122003	7.4	48
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691	Search for flavor-changing neutral currents in top-quark decays $t \rightarrow Zq$ in pp collisions at $\sqrt{s} = 8$ TeV. <i>Physical Review Letters</i> , 2014 , 112, 171802	7.4	46
690	Measurement of the relative prompt production rate of and in pp collisions at [Formula: see text]. <i>European Physical Journal C</i> , 2012 , 72, 2251	4.2	46
689	Search for new physics with same-sign isolated dilepton events with jets and missing transverse energy at the LHC. <i>Journal of High Energy Physics</i> , 2011 , 2011, 1	5.4	46
688	Search for new physics with jets and missing transverse momentum in pp collisions at ($\sqrt{s} = 7$) TeV. <i>Journal of High Energy Physics</i> , 2011 , 2011, 1	5.4	46
687	Search for new physics with same-sign isolated dilepton events with jets and missing transverse energy. <i>Physical Review Letters</i> , 2012 , 109, 071803	7.4	46
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682	Search for the associated production of the Higgs boson with a top-quark pair. <i>Journal of High Energy Physics</i> , 2014 , 2014, 1	5.4	45
681	Search for exclusive or semi-exclusive B production and observation of exclusive and semi-exclusive $e^+e^- B$ production in pp collisions at ($\sqrt{s}=7$) TeV. <i>Journal of High Energy Physics</i> , 2012 , 2012, 1	5.4	45
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679	Measurement of dijet angular distributions and search for quark compositeness in pp collisions at $\sqrt{s} = 7$ TeV. <i>Physical Review Letters</i> , 2011 , 106, 201804	7.4	45
678	Measurement of the differential cross section for isolated prompt photon production in pp collisions at 7 TeV. <i>Physical Review D</i> , 2011 , 84,	4.9	45
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675	Measurement of the $\sigma_{\text{had}}(e^+e^-)$. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2013 , 727, 101-125	4.2	44
674	Search for heavy bottom-like quarks in 4.9 fb $^{-1}$ of pp collisions at ($\sqrt{s} = 7$) TeV. <i>Journal of High Energy Physics</i> , 2012 , 2012, 1	5.4	44

673	Charged particle transverse momentum spectra in pp collisions at ($\sqrt{s} = 0.9$) and 7 TeV. <i>Journal of High Energy Physics</i> , 2011 , 2011, 1	5-4	44
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670	Measurement of the differential dijet production cross section in proton-proton collisions at $\sqrt{s}=7$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2011 , 700, 187-206	4-2	44
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668	Search for First Generation Leptoquark Pair Production in pp Collisions at $\sqrt{s}=1.8$ TeV. <i>Physical Review Letters</i> , 1997 , 79, 4327-4332	7-4	44
667	Measurement of B hadron lifetimes using J/ψ final states at CDF. <i>Physical Review D</i> , 1998 , 57, 5382-5401	4-9	44
666	Search for two Higgs bosons in final states containing two photons and two bottom quarks in proton-proton collisions at 8 TeV. <i>Physical Review D</i> , 2016 , 94,	4-9	44
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664	Measurement of the ($\overline{t}t$) production cross section in the dilepton channel in pp collisions at (\sqrt{s}) = 8 TeV. <i>Journal of High Energy Physics</i> , 2014 , 2014, 1	5-4	43
663	Measurement of the differential and double-differential Drell-Yan cross sections in proton-proton collisions at (\sqrt{s}) = 7 TeV. <i>Journal of High Energy Physics</i> , 2013 , 2013, 1	5-4	43
662	Searches for heavy Higgs bosons in two-Higgs-doublet models and for $t \rightarrow ch$ decay using multilepton and diphoton final states in pp collisions at 8 TeV. <i>Physical Review D</i> , 2014 , 90,	4-9	43
661	Search for leptonic decays of W^\pm bosons in pp collisions at ($\sqrt{s} = \{7\}$) TeV. <i>Journal of High Energy Physics</i> , 2012 , 2012, 1	5-4	43
660	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
659	Jet reconstruction and performance using particle flow with the ATLAS Detector. <i>European Physical Journal C</i> , 2017 , 77, 466	4-2	42
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656	Angular coefficients of Z bosons produced in pp collisions at $\sqrt{s}=8$ TeV and decaying to $\mu\mu$ as a function of transverse momentum and rapidity. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2015 , 750, 154-175	4-2	42

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649	Search for the Flavor-Changing Neutral Current Decays $B^+ \rightarrow \mu^+ \mu^0$ and $B^0 \rightarrow \mu^+ \mu^-$. <i>Physical Review Letters</i> , 1999 , 83, 3378-3383	7.4	42
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647	Measurement of J/ψ and $\psi(2S)$ Prompt Double-Differential Cross Sections in pp Collisions at $\sqrt{s}=7$ TeV. <i>Physical Review Letters</i> , 2015 , 114, 191802	7.4	41
646	Search for supersymmetry using razor variables in events with b-tagged jets in pp collisions at $s=8$ TeV. <i>Physical Review D</i> , 2015 , 91,	4.9	41
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644	Measurement of the ratio $B(t \rightarrow Wb)/B(t \rightarrow Wq)$ in pp collisions at $s=8\text{TeV}$. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2014 , 736, 33-57	4.2	41
643	Measurement of the inclusive 3-jet production differential cross section in proton-proton collisions at 7 TeV and determination of the strong coupling constant in the TeV range. <i>European Physical Journal C</i> , 2015 , 75, 186	4.2	41
642	Measurement of prompt J/ψ pair production in pp collisions at $(\sqrt{s}) = 7$ TeV. <i>Journal of High Energy Physics</i> , 2014 , 2014, 1	5.4	41
641	Search for electroweak production of charginos and neutralinos using leptonic final states in pp collisions at $(\sqrt{s}=7)$ TeV. <i>Journal of High Energy Physics</i> , 2012 , 2012, 1	5.4	41
640	Search for heavy Majorana neutrinos in $\mu\mu$ +jets and $e\mu$ +jets events in pp collisions at $s=7\text{TeV}$. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2012 , 717, 109-128	4.2	41
639	Inclusive search for supersymmetry using razor variables in pp collisions at $\sqrt{s}=7$ TeV. <i>Physical Review Letters</i> , 2013 , 111, 081802	7.4	41
638	Search for pair-produced dijet resonances in four-jet final states in pp collisions at $\sqrt{s} = 7$ TeV. <i>Physical Review Letters</i> , 2013 , 110, 141802	7.4	41

637	Observation of diffractive b-quark production at the fermilab tevatron. <i>Physical Review Letters</i> , 2000 , 84, 232-7	7.4	41
636	Measurement of the $t\bar{t}$ Production Cross Section in pp Collisions at $s=1.8\text{TeV}$. <i>Physical Review Letters</i> , 1998 , 80, 2773-2778	7.4	41
635	Search for top squarks in final states with one isolated lepton, jets, and missing transverse momentum in $s=13$ TeV pp collisions with the ATLAS detector. <i>Physical Review D</i> , 2016 , 94,	4.9	41
634	Search for pair production of third-generation leptoquarks and top squarks in pp collisions at $\sqrt{s}=7$ TeV. <i>Physical Review Letters</i> , 2013 , 110, 081801	7.4	40
633	Inclusive search for squarks and gluinos in pp collisions at $s=7$ TeV. <i>Physical Review D</i> , 2012 , 85,	4.9	40
632	Searches for new physics in diphoton events in pp collisions at $s=1.8\text{TeV}$. <i>Physical Review D</i> , 1999 , 59,	4.9	40
631	Search for displaced supersymmetry in events with an electron and a muon with large impact parameters. <i>Physical Review Letters</i> , 2015 , 114, 061801	7.4	39
630	Search for pair production of first and second generation leptoquarks in proton-proton collisions at $s=8$ TeV. <i>Physical Review D</i> , 2016 , 93,	4.9	39
629	Studies of jet mass in dijet and $W/Z + \text{jet}$ events. <i>Journal of High Energy Physics</i> , 2013 , 2013, 1	5.4	39
628	Study of the underlying event at forward rapidity in pp collisions at ($\sqrt{s}=0.9, 2.76, 7$ TeV). <i>Journal of High Energy Physics</i> , 2013 , 2013, 1	5.4	39
627	Measurement of the ZZ production cross section and search for anomalous couplings in 2jet final states in pp collisions at ($\sqrt{s}=7$) TeV. <i>Journal of High Energy Physics</i> , 2013 , 2013, 1	5.4	39
626	Search for a Higgs boson decaying into a b-quark pair and produced in association with b quarks in proton-proton collisions at 7 TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2013 , 722, 207-232	4.2	39
625	Search for same-sign top-quark pair production at ($\sqrt{s}=7$) TeV and limits on flavour changing neutral currents in the top sector. <i>Journal of High Energy Physics</i> , 2011 , 2011, 1	5.4	39
624	Search for charged Higgs bosons decaying into top and bottom quarks at ($\sqrt{s}=13$) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	39
623	Search for new physics in events with same-sign dileptons and jets in pp collisions at ($\sqrt{s}=8$) TeV. <i>Journal of High Energy Physics</i> , 2014 , 2014, 1	5.4	38
622	Search for microscopic black holes in pp collisions at ($\sqrt{s}=8$) TeV. <i>Journal of High Energy Physics</i> , 2013 , 2013, 1	5.4	38
621	Measurement of prompt τ to J/ψ yield ratios in Pb-Pb and p-p collisions at $\sqrt{s_{NN}}=2.76$ TeV. <i>Physical Review Letters</i> , 2014 , 113, 262301	7.4	38
620	Search for top squark and Higgsino production using diphoton Higgs boson decays. <i>Physical Review Letters</i> , 2014 , 112, 161802	7.4	38

619	Measurement of W and Z production in pp collisions at $\sqrt{s} = 7$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2011 , 701, 535-555	4.2	38
618	Measurement of the lepton charge asymmetry in inclusive W production in pp collisions at $\sqrt{s} = 7$ TeV. <i>Journal of High Energy Physics</i> , 2011 , 2011, 1	5.4	38
617	Search for stopped Gluinos in pp collisions at square root $s=7$ TeV. <i>Physical Review Letters</i> , 2011 , 106, 011801	7.4	38
616	Observation of $B_0 \rightarrow J/\psi K_S$ at the Fermilab proton-antiproton collider. <i>Physical Review D</i> , 1997 , 55, 1142-1152	4.9	38
615	Measurement of the [Formula: see text] cross section in pp collisions at [Formula: see text] TeV and limits on anomalous gauge couplings. <i>European Physical Journal C</i> , 2016 , 76, 401	4.2	38
614	Electron reconstruction and identification in the ATLAS experiment using the 2015 and 2016 LHC proton-proton collision data at $\sqrt{s} = 13$ TeV. <i>European Physical Journal C</i> , 2019 , 79, 1	4.2	37
613	Differential cross section measurements for the production of a W boson in association with jets in proton-proton collisions at $s=7$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2015 , 741, 12-37	4.2	37
612	Constraints on parton distribution functions and extraction of the strong coupling constant from the inclusive jet cross section in pp collisions at [Formula: see text][Formula: see text]. <i>European Physical Journal C</i> , 2015 , 75, 288	4.2	37
611	Measurement of the differential cross section and charge asymmetry for inclusive [Formula: see text] production at [Formula: see text] TeV. <i>European Physical Journal C</i> , 2016 , 76, 469	4.2	37
610	Measurement of associated W + charm production in pp collisions at $\sqrt{s} = 7$ TeV. <i>Journal of High Energy Physics</i> , 2014 , 2014, 1	5.4	37
609	Jet production rates in association with W and Z bosons in pp collisions at $\sqrt{s} = 7$ TeV. <i>Journal of High Energy Physics</i> , 2012 , 2012, 1	5.4	37
608	Measurement of masses in the [Formula: see text] system by kinematic endpoints in pp collisions at [Formula: see text]. <i>European Physical Journal C</i> , 2013 , 73, 2494	4.2	37
607	Search for narrow resonances and quantum black holes in inclusive and b-tagged dijet mass spectra from pp collisions at $\sqrt{s}=7$ TeV. <i>Journal of High Energy Physics</i> , 2013 , 2013, 1	5.4	37
606	Search for the standard model Higgs boson produced through vector boson fusion and decaying to bb . <i>Physical Review D</i> , 2015 , 92,	4.9	37
605	Limits on the Higgs boson lifetime and width from its decay to four charged leptons. <i>Physical Review D</i> , 2015 , 92,	4.9	37
604	Measurement of pseudorapidity distributions of charged particles in proton-proton collisions at $\sqrt{s} = 8$ TeV by the CMS and TOTEM experiments. <i>European Physical Journal C</i> , 2014 , 74, 1	4.2	37
603	Measurement of the polarization of W bosons with large transverse momenta in W + jets events at the LHC. <i>Physical Review Letters</i> , 2011 , 107, 021802	7.4	37
602	Limits on extra dimensions and new particle production in the exclusive photon and missing energy signature in pp collisions at square root $[s]=1.8$ TeV. <i>Physical Review Letters</i> , 2002 , 89, 281801	7.4	37

601	Measurement of the $B \rightarrow D^* \ell \bar{\nu}_\ell$ Oscillation Frequency Using B Meson Charge-Flavor Correlations in pp Collisions at $s=1.8\text{TeV}$. <i>Physical Review Letters</i> , 1998 , 80, 2057-2062	7.4	37
600	Charged-particle distributions at low transverse momentum in $[\text{Formula: see text}] \text{TeV}$ interactions measured with the ATLAS detector at the LHC. <i>European Physical Journal C</i> , 2016 , 76, 502	4.2	37
599	Study of W boson production in pPb collisions at $s_{NN}=5.02\text{TeV}$. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2015 , 750, 565-586	4.2	36
598	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
597	Interplay and characterization of Dark Matter searches at colliders and in direct detection experiments. <i>Physics of the Dark Universe</i> , 2015 , 9-10, 51-58	4.4	36
596	Measurement of the Z boson differential cross section in transverse momentum and rapidity in proton-proton collisions at 8 TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2015 , 749, 187-209	4.2	36
595	Measurement of the ratio of inclusive jet cross sections using the anti- k_T algorithm with radius parameters $R=0.5$ and 0.7 in pp collisions at $s=7$ TeV. <i>Physical Review D</i> , 2014 , 90,	4.9	36
594	Measurement of the top-quark mass in $(\text{t} \rightarrow \text{b} \ell \bar{\nu}_\ell)$ events with dilepton final states in pp collisions at ($\sqrt{s}=7$ TeV). <i>European Physical Journal C</i> , 2012 , 72, 1	4.2	36
593	First measurement of the underlying event activity at the LHC with ($\sqrt{s} = 0.9$) TeV. <i>European Physical Journal C</i> , 2010 , 70, 555-572	4.2	36
592	Evidence for $W+W$ Production in $p\bar{p}$ Collisions at $s=1.8\text{TeV}$. <i>Physical Review Letters</i> , 1997 , 78, 4536-4540	7.4	36
591	Momentum distribution of charged particles in jets in dijet events in pp collisions at $s=1.8\text{TeV}$ and comparisons to perturbative QCD predictions. <i>Physical Review D</i> , 2003 , 68,	4.9	36
590	Search for disappearing tracks in proton-proton collisions at ($\sqrt{s}=8$) TeV. <i>Journal of High Energy Physics</i> , 2015 , 2015, 1	5.4	35
589	Measurement of longitudinal flow decorrelations in Pb+Pb collisions at and 5.02 TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2018 , 78, 142	4.2	35
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586	Study of Z boson production in pPb collisions at $s_{NN}=5.02\text{TeV}$. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2016 , 759, 36-57	4.2	35
585	Measurement of differential cross sections for Higgs boson production in the diphoton decay channel in pp collisions at $[\text{Formula: see text}]$. <i>European Physical Journal C</i> , 2016 , 76, 13	4.2	35
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583	Angular analysis and branching fraction measurement of the decay $B_0 \rightarrow K^* \mu^+ \mu^-$. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2013 , 727, 77-100	4.2	35
582	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
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580	Search for top squarks in R-parity-violating supersymmetry using three or more leptons and b-tagged jets. <i>Physical Review Letters</i> , 2013 , 111, 221801	7.4	35
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575	Measurement of the strong coupling constant from inclusive jet production at the Tevatron pp collider. <i>Physical Review Letters</i> , 2002 , 88, 042001	7.4	35
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573	Search for new particles decaying to $t\bar{t}$ in pp collisions at $\sqrt{s}=1.8$ TeV. <i>Physical Review Letters</i> , 2000 , 85, 2062-7	7.4	35
572	Search for lepton flavour violating decays of the Higgs boson to e^+e^- and $\mu^+\mu^-$ in proton-proton collisions at $\sqrt{s}=8$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2016 , 763, 472-500	4.2	35
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570	Search for microscopic black holes in pp collisions at $(\sqrt{s} = \text{7 TeV})$. <i>Journal of High Energy Physics</i> , 2012 , 2012, 1	5.4	34
569	Measurement of associated production of vector bosons and top quark-antiquark pairs in pp collisions at $\sqrt{s}=7$ TeV. <i>Physical Review Letters</i> , 2013 , 110, 172002	7.4	34
568	Search for heavy stable charged particles in pp collisions at $(\sqrt{s} = 7; \text{TeV})$. <i>Journal of High Energy Physics</i> , 2011 , 2011, 1	5.4	34
567	Search for three-jet resonances in pp collisions at $\sqrt{s}=7$ TeV. <i>Physical Review Letters</i> , 2011 , 107, 101801	7.4	34
566	Double diffraction dissociation at the Fermilab Tevatron collider. <i>Physical Review Letters</i> , 2001 , 87, 141802	7.4	34

565	Search for heavy long-lived charged R-hadrons with the ATLAS detector in 3.2 fb of proton-proton collision data at $\sqrt{s}=13$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2016 , 760, 647-665	4.2	34
564	Search for heavy particles decaying into top-quark pairs using lepton-plus-jets events in proton-proton collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2018 , 78, 565	4.2	34
563	Search for decays of stopped long-lived particles produced in proton-proton collisions at $\sqrt{s}=13$ TeV. <i>European Physical Journal C</i> , 2015 , 75, 151	4.2	33
562	Search for new physics in events with same-sign dileptons and b jets in pp collisions at $(\sqrt{s}=8)$ TeV. <i>Journal of High Energy Physics</i> , 2013 , 2013, 1	5.4	33
561	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
560	Searches for third-generation squark production in fully hadronic final states in proton-proton collisions at $(\sqrt{s}=8)$ TeV. <i>Journal of High Energy Physics</i> , 2015 , 2015, 1	5.4	33
559	Search for a light charged Higgs boson decaying to $(\overline{\text{charm}} \text{charm})$ in pp collisions at $(\sqrt{s}=8)$ TeV. <i>Journal of High Energy Physics</i> , 2015 , 2015, 1-37	5.4	33
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556	Search for Z resonances decaying to tt in dilepton+jets final states in pp collisions at $\sqrt{s}=7$ TeV. <i>Physical Review D</i> , 2013 , 87,	4.9	33
555	Measurement of the CP-Violation Parameter $\sin(2\beta)$ in $B_d^0/B_d^0 \rightarrow J/\psi S^0$ Decays. <i>Physical Review Letters</i> , 1998 , 81, 5513-5518	7.4	33
554	Search for neutral resonances decaying into a Z boson and a pair of b jets or leptons. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2016 , 759, 369-394	4.2	33
553	Search for top-squark pair production in final states with one lepton, jets, and missing transverse momentum using 36 fb of $(\sqrt{s}=13)$ TeV pp collision data with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	33
552	Search for charged Higgs bosons decaying via $H^\pm \rightarrow \tau^\pm \nu_\tau$ in the τ jets and τ lepton final states with 36 fb of pp collision data recorded at $(\sqrt{s}=13)$ TeV with the ATLAS experiment. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	33
551	Search for dark matter produced in association with bottom or top quarks in $\sqrt{s}=13$ TeV collisions with the ATLAS detector. <i>European Physical Journal C</i> , 2018 , 78, 18	4.2	32
550	Identification techniques for highly boosted W bosons that decay into hadrons. <i>Journal of High Energy Physics</i> , 2014 , 2014, 1	5.4	32
549	Search for fractionally charged particles in pp collisions at $\sqrt{s}=7$ TeV. <i>Physical Review D</i> , 2013 , 87,	4.9	32
548	Search for resonances in the dilepton mass distribution in pp collisions at $(\sqrt{s}=7)$ TeV. <i>Journal of High Energy Physics</i> , 2011 , 2011, 1	5.4	32

547	Search for supersymmetry in pp collisions at ($\sqrt{s} = 7$) TeV in events with a single lepton, jets, and missing transverse momentum. <i>Journal of High Energy Physics</i> , 2011 , 2011, 1	5-4	32
546	Measurement of the Drell-Yan cross section in pp collisions at ($\sqrt{s} = 7$) TeV. <i>Journal of High Energy Physics</i> , 2011 , 2011, 1	5-4	32
545	Measurement of the charge ratio of atmospheric muons with the CMS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2010 , 692, 83-104	4-2	32
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543	Search for pair production of Higgs bosons in the ($\overline{b}b$) final state using proton-proton collisions at ($\sqrt{s}=13$) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1	5-4	31
542	Constraints on mediator-based dark matter and scalar dark energy models using (\sqrt{s}) = 13 TeV pp collision data collected by the ATLAS detector. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1	5-4	31
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538	Measurement of the B_s^0 Production Cross Section with $B_s^0 \rightarrow J/\psi$ Decays in pp Collisions at $\sqrt{s}=7$ TeV. <i>Physical Review D</i> , 2011 , 84,	4-9	31
537	Performance and operation of the CMS electromagnetic calorimeter. <i>Journal of Instrumentation</i> , 2010 , 5, T03010-T03010	1	31
536	Measurements of b-jet tagging efficiency with the ATLAS detector using ($\overline{t}t$) events at ($\sqrt{s}=13$) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5-4	31
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533	Search in leptonic channels for heavy resonances decaying to long-lived neutral particles. <i>Journal of High Energy Physics</i> , 2013 , 2013, 1	5-4	30
532	Event shapes and azimuthal correlations in Z+jets events in pp collisions at $\sqrt{s}=7$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2013 , 722, 238-261	4-2	30
531	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
530	Inclusive b-jet production in pp collisions at ($\sqrt{s} = 7$ TeV). <i>Journal of High Energy Physics</i> , 2012 , 2012, 1	5-4	30

529	Observation of Z decays to four leptons with the CMS detector at the LHC. <i>Journal of High Energy Physics</i> , 2012 , 2012, 1	5.4	30
528	Measurement of the top-quark mass in $(\overline{t}t)$ events with lepton+jets final states in pp collisions at $(\sqrt{s}=7)$ TeV. <i>Journal of High Energy Physics</i> , 2012 , 2012, 1	5.4	30
527	Measurement of the σ_{B} cross section and the $\sigma_{\text{B}}/\sigma_{\text{t}}$ ratio with J/ψ decays in pp collisions at $s=7$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2012 , 714, 136-147	4.7	30
526	Measurement of the underlying event in the Drell-Yan process in proton-proton collisions at $(\sqrt{s} = 7\text{ TeV})$. <i>European Physical Journal C</i> , 2012 , 72, 1	4.2	30
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523	Performance of electron and photon triggers in ATLAS during LHC Run 2. <i>European Physical Journal C</i> , 2020 , 80, 1	4.2	30
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521	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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519	Measurement of diffractive dissociation cross sections in pp collisions at $s=7$ TeV. <i>Physical Review D</i> , 2015 , 92,	4.9	29
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517	Measurement of differential cross sections for the production of a pair of isolated photons in pp collisions at $\sqrt{s}=7$ TeV. <i>European Physical Journal C</i> , 2014 , 74, 3129	4.2	29
516	A search for pair-produced resonances in four-jet final states at $\sqrt{s}=7$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2018 , 78, 250	4.2	28
515	Measurement of the Top Quark Pair Production Cross Section in Proton-Proton Collisions at $\sqrt{s}=13$ TeV. <i>Physical Review Letters</i> , 2016 , 116, 052002	7.4	28
514	Combined search for anomalous pseudoscalar HVV couplings in $VH(H\rightarrow b\bar{b})$ production and $H\rightarrow VV$ decay. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2016 , 759, 672-696	4.2	28
513	Search for heavy Majorana neutrinos in $e^+e^-\mu^+\mu^-$ jets and $e^+e^-\mu^+\mu^-$ jets events in proton-proton collisions at $(\sqrt{s}=8)$ TeV. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1	5.4	28
512	Search for long-lived particles in events with photons and missing energy in proton-proton collisions at $\sqrt{s}=7$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2013 , 722, 273-294	4.2	28

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510	Search for physics beyond the standard model using multilepton signatures in . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2011 , 704, 411-433	4.2	28
509	Search for supersymmetry in events with b jets and missing transverse momentum at the LHC. <i>Journal of High Energy Physics</i> , 2011 , 2011, 1	5.4	28
508	Search for a heavy bottom-like quark in pp collisions at . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2011 , 701, 204-223	4.2	28
507	Search for pair production of first- and second-generation scalar leptoquarks in pp collisions at $\sqrt{s}=7$ TeV. <i>Physical Review D</i> , 2012 , 86,	4.9	28
506	Search for second and third generation leptoquarks including production via technicolor interactions in $p\bar{p}$ collisions at $\sqrt{s}=1.8$ TeV. <i>Physical Review Letters</i> , 2000 , 85, 2056-61	7.4	28
505	Measurement of b-quark fragmentation fractions in $p\bar{p}$ collisions at $\sqrt{s}=1.8$ TeV. <i>Physical Review Letters</i> , 2000 , 84, 1663-8	7.4	28
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503	Search for R-Parity Violating Supersymmetry Using Like-Sign Dielectrons in pp Collisions at $\sqrt{s}=1.8$ TeV. <i>Physical Review Letters</i> , 1999 , 83, 2133-2138	7.4	28
502	Search for minimal supersymmetric standard model Higgs Bosons H and for a A boson in the WZ final state produced in collisions at $\sqrt{s}=7$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2016 , 76, 585	4.2	28
501	Search for supersymmetry in final states with missing transverse momentum and multiple b-jets in proton-proton collisions at $(\sqrt{s}=13)$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	28
500	Fiducial, total and differential cross-section measurements of s -channel single top-quark production in collisions at $\sqrt{s}=8$ TeV using data collected by the ATLAS detector. <i>European Physical Journal C</i> , 2017 , 77, 531	4.2	27
499	Measurements of the $\sigma(\gamma\gamma)$, $\sigma(\gamma Z)$, and $\sigma(ZZ)$ differential cross sections in pp collisions at $\sqrt{s}=7$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2015 , 749, 14-34	4.2	27
498	Evidence for exclusive $\gamma\gamma \rightarrow W + W$ production and constraints on anomalous quartic gauge couplings in pp collisions at $(\sqrt{s}=7)$ and 8 TeV. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1	5.4	27
497	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
496	Shape, transverse size, and charged-hadron multiplicity of jets in pp collisions at $(\sqrt{s}=7; \text{TeV})$. <i>Journal of High Energy Physics</i> , 2012 , 2012, 1	5.4	27
495	Measurement of $(\overline{B}B)$ angular correlations based on secondary vertex reconstruction at $(\sqrt{s}=7, \text{TeV})$. <i>Journal of High Energy Physics</i> , 2011 , 2011, 1	5.4	27
494	Production of $\chi(c1)$ and $\chi(c2)$ in pp collisions at $\sqrt{s}=1.8$ TeV. <i>Physical Review Letters</i> , 2001 , 86, 3963-8	7.4	27

493	Measurement of the B _S meson lifetime using semileptonic decays. <i>Physical Review D</i> , 1999 , 59,	4.9	27
492	Measurement of the photon identification efficiencies with the ATLAS detector using LHC Run 2 data collected in 2015 and 2016. <i>European Physical Journal C</i> , 2019 , 79, 1	4.2	26
491	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
490	Measurement of the CP-violating weak phase ϕ_1 and the decay width difference $\Delta\Gamma$ using the B _S ⁰ →J/ψ(1020) decay channel in pp collisions at $\sqrt{s}=8$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2016 , 757, 97-120	4.2	26
489	Measurement of the cross section and angular correlations for associated production of a Z boson with b hadrons in pp collisions at (\sqrt{s}) = 7 TeV. <i>Journal of High Energy Physics</i> , 2013 , 2013, 1	5.4	26
488	Search for a non-standard-model Higgs boson decaying to a pair of new light bosons in four-muon final states. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2013 , 726, 564-586	4.2	26
487	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
486	Searches for supersymmetry using the M _{T2} variable in hadronic events produced in pp collisions at 8 TeV. <i>Journal of High Energy Physics</i> , 2015 , 2015, 1	5.4	26
485	Search for high-mass resonances decaying into dilepton pairs in pp collisions at $\sqrt{s}=7$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2012 , 716, 82-102	4.2	26
484	Search for physics beyond the standard model in opposite-sign dilepton events in pp collisions at ($\sqrt{s} = 7, \text{TeV}$). <i>Journal of High Energy Physics</i> , 2011 , 2011, 1	5.4	26
483	Search for a heavy gauge boson Z' . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2011 , 698, 21-39	4.2	26
482	Search for a Z' . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2011 , 701, 160-179	4.2	26
481	Search for a W _L or techni-W _L decaying into WZ in pp Collisions at $\sqrt{s} = 7$ TeV. <i>Physical Review Letters</i> , 2012 , 109, 141801	7.4	26
480	Measurement of $d\sigma/dM$ and forward-backward charge asymmetry for high-mass Drell-Yan $e^{+}e^{-}$ pairs from pp macro collisions at square root of $s = 1.8$ TeV. <i>Physical Review Letters</i> , 2001 , 87, 131802	7.4	26
479	Search for scalar top quark production in p&pmacr; collisions at \sqrt{s} . <i>Physical Review Letters</i> , 2000 , 84, 5273-8	7.4	26
478	Measurement of the decay amplitudes of B ₀ → J/ψK ⁰ and B _S (0) → J/ψstraight phi decays. <i>Physical Review Letters</i> , 2000 , 85, 4668-73	7.4	26
477	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
476	Search for monotop signatures in proton-proton collisions at $\sqrt{s}=8$ TeV. <i>Physical Review Letters</i> , 2015 , 114, 101801	7.4	25

475	Measurement of the W-boson helicity in top-quark decays from $(\overline{\text{t}} \rightarrow \text{W}^+ \text{b})$ production in lepton+jets events in pp collisions at $(\sqrt{s}=7)$ TeV. <i>Journal of High Energy Physics</i> , 2013 , 2013, 1	5.4	25
474	Measurement of inclusive and differential cross sections in the $\text{H} \rightarrow \text{ZZ}^* \rightarrow 4\ell$ 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
473	Measurements of the $\text{Z} \rightarrow \text{e}^+ \text{e}^-$ production cross sections in the $\text{Z} \rightarrow \text{e}^+ \text{e}^-$ channel in proton-proton collisions at $\sqrt{s}=13$ TeV and combined constraints on triple gauge couplings. <i>European Physical Journal C</i> , 2015 , 75, 511	4.2	25
472	Search for resonant $(\overline{\text{t}} \rightarrow \text{W}^+ \text{b})$ production in lepton+jets events in pp collisions at $(\sqrt{s}=7)$ TeV. <i>Journal of High Energy Physics</i> , 2012 , 2012, 1	5.4	25
471	First Observation of the Rare Decay Mode $\text{K}_L^0 \rightarrow \text{e}^+ \text{e}^- \mu^+ \mu^-$. <i>Physical Review Letters</i> , 1998 , 81, 4309-4312	7.4	25
470	Search for bottom squark pair production in proton-proton collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2016 , 76, 547	4.2	25
469	Search for heavy resonances decaying to two Higgs bosons in final states containing four b quarks. <i>European Physical Journal C</i> , 2016 , 76, 371	4.2	25
468	Measurement of the top quark mass in the $(\overline{\text{t}} \rightarrow \text{W}^+ \text{b})$ lepton+jets channel from $(\sqrt{s}=8)$ TeV ATLAS data and combination with previous results. <i>European Physical Journal C</i> , 2019 , 79, 1	4.2	24
467	Measurements of jet multiplicity and differential production cross sections of Z+jets events in proton-proton collisions at $\sqrt{s}=7$ TeV. <i>Physical Review D</i> , 2015 , 91,	4.9	24
466	Constraints on the pMSSM, AMSB model and on other models from the search for long-lived charged particles in proton-proton collisions at $\sqrt{s}=13$ TeV. <i>European Physical Journal C</i> , 2015 , 75, 325	4.2	24
465	Measurement of inclusive jet production and nuclear modifications in pPb collisions at $\sqrt{s}=2.76$ TeV. <i>European Physical Journal C</i> , 2016 , 76, 372	4.2	24
464	Jet and underlying event properties as a function of charged-particle multiplicity in proton-proton collisions at $\sqrt{s}=13$ TeV. <i>European Physical Journal C</i> , 2013 , 73, 2674	4.2	24
463	Alignment of the CMS tracker with LHC and cosmic ray data. <i>Journal of Instrumentation</i> , 2014 , 9, P06009-P06009	4.2	24
462	Search for WW and WZ production and constraints on anomalous quartic gauge couplings in pp collisions at $\sqrt{s}=8$ TeV. <i>Physical Review D</i> , 2014 , 90,	4.9	24
461	Measurement of the $\text{Z} \rightarrow \text{e}^+ \text{e}^-$ + b-jet cross section in pp collisions at $(\sqrt{s}=7)$ TeV. <i>Journal of High Energy Physics</i> , 2012 , 2012, 1	5.4	24
460	Search for new physics in events with same-sign dileptons and b-tagged jets in pp collisions at $(\sqrt{s}=7)$ TeV. <i>Journal of High Energy Physics</i> , 2012 , 2012, 1	5.4	24
459	Search for three-jet resonances in pp collisions at $\sqrt{s}=7$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2012 , 718, 329-347	4.2	24
458	Search for the standard model Higgs boson in the $\text{H} \rightarrow \text{ZZ} \rightarrow 2\ell 2\ell$ channel in pp collisions at $(\sqrt{s}=7)$ TeV. <i>Journal of High Energy Physics</i> , 2012 , 2012, 1	5.4	24

457	Forward-Backward asymmetry of Drell-Yan lepton pairs in pp collisions at $\sqrt{s}=7\text{TeV}$. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2013 , 718, 752-772	4.2	24
456	Search for a fourth-generation quark more massive than the Z boson in pp collisions at $\sqrt{s}=1.8\text{TeV}$. <i>Physical Review Letters</i> , 2000 , 84, 835-40	7.4	24
455	Search for dark matter in association with a Higgs boson decaying to b-quarks in pp collisions at $\sqrt{s}=13\text{TeV}$ with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2017 , 765, 11-31	4.2	23
454	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
453	Measurement of exclusive W^+W^- production and search for exclusive Higgs boson production in pp collisions at $\sqrt{s}=8\text{TeV}$ using the ATLAS detector. <i>Physical Review D</i> , 2016 , 94,	4.9	23
452	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
451	Search for $\text{W}^+ \rightarrow \text{tb}$ decays in the lepton + jets final state in pp collisions at $(\sqrt{s}) = 8\text{TeV}$. <i>Journal of High Energy Physics</i> , 2014 , 2014, 1	5.4	23
450	Measurement of four-jet production in proton-proton collisions at $\sqrt{s}=7\text{TeV}$. <i>Physical Review D</i> , 2014 , 89,	4.9	23
449	Search for physics beyond the standard model in events with a Z boson, jets, and missing transverse energy in pp collisions at $\sqrt{s}=7\text{TeV}$. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2012 , 716, 260-284	4.2	23
448	Combined search for the quarks of a sequential fourth generation. <i>Physical Review D</i> , 2012 , 86,	4.9	23
447	Charge collection studies in irradiated HV-CMOS particle detectors. <i>Journal of Instrumentation</i> , 2016 , 11, P04007-P04007	1	23
446	Search for dark matter produced in association with a hadronically decaying vector boson in pp collisions at $\sqrt{s}=13\text{TeV}$ with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2016 , 763, 251-268	4.2	23
445	Search for a new heavy gauge-boson resonance decaying into a lepton and missing transverse momentum in 36 fb of collisions at $\sqrt{s}=13\text{TeV}$ with the ATLAS experiment. <i>European Physical Journal C</i> , 2018 , 78, 401	4.2	23
444	Search for Higgs boson pair production in the $(\text{b}\bar{\text{b}}\gamma\gamma)$ final state with 13 TeV pp collision data collected by the ATLAS experiment. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	23
443	Prompt and non-prompt and suppression at high transverse momentum in Pb+Pb collisions with the ATLAS experiment. <i>European Physical Journal C</i> , 2018 , 78, 762	4.2	23
442	A measurement of the calorimeter response to single hadrons and determination of the jet energy scale uncertainty using LHC Run-1 collision data with the ATLAS detector. <i>European Physical Journal C</i> , 2017 , 77, 26	4.2	22
441	Measurement of the inclusive cross-sections of single top-quark and top-antiquark t-channel production in pp collisions at $(\sqrt{s}=13\text{TeV})$ with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1	5.4	22
440	Search for $\text{W}^+\text{W}^-/\text{W}^+\text{Z}$ resonance production in $\text{b}\bar{\text{q}}\text{q}$ final states in pp collisions at $(\sqrt{s}=13\text{TeV})$ with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	22

439	Transverse momentum spectra of inclusive b jets in pPb collisions at $\sqrt{s_{NN}}=5.02$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2016 , 754, 59-80	4.2	22
438	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
437	Search for physics beyond the standard model in events with two leptons, jets, and missing transverse momentum in pp collisions at (\sqrt{s}) = 8 TeV. <i>Journal of High Energy Physics</i> , 2015 , 2015, 1	5.4	22
436	Measurement of Bose-Einstein correlations in pp collisions at ($\sqrt{s} = 0.9$) and 7 TeV. <i>Journal of High Energy Physics</i> , 2011 , 2011, 1	5.4	22
435	Measurement of the ratio of b quark production cross sections in p \bar{p} collisions at $s=630$ GeV and $s=1800$ GeV. <i>Physical Review D</i> , 2002 , 66,	4.9	22
434	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
433	Search for heavy Majorana or Dirac neutrinos and right-handed W gauge bosons in final states with two charged leptons and two jets at ($\sqrt{s}=13$) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1	5.4	21
432	Search for quark contact interactions and extra spatial dimensions using dijet angular distributions in proton-proton collisions at $s=8$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2015 , 746, 79-99	4.2	21
431	Measurement of electroweak production of two jets in association with a Z boson in proton-proton collisions at [Formula: see text]. <i>European Physical Journal C</i> , 2015 , 75, 66	4.2	21
430	Measurements of $t\bar{t}$ spin correlations and top quark polarization using dilepton final states in pp collisions at $s=8$ TeV. <i>Physical Review D</i> , 2016 , 93,	4.9	21
429	Correlations between jets and charged particles in PbPb and pp collisions at ($\sqrt{s_{\mathrm{NN}}}=2.76$) TeV. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1	5.4	21
428	Measurement of the [Formula: see text] production cross section in the all-jets final state in pp collisions at [Formula: see text][Formula: see text]. <i>European Physical Journal C</i> , 2016 , 76, 128	4.2	21
427	Measurement of the production cross sections for a Z boson and one or more b jets in pp collisions at (\sqrt{s}) = 7 TeV. <i>Journal of High Energy Physics</i> , 2014 , 2014, 1	5.4	21
426	Measurement of the top-quark mass in all-jets [Formula: see text] events in pp collisions at [Formula: see text] TeV. <i>European Physical Journal C</i> , 2014 , 74, 2758	4.2	21
425	Measurement of the ($\mathrm{t}\bar{\mathrm{t}}$) production cross section in the $\bar{t}t$ jets channel in pp collisions at ($\sqrt{s}=7$ TeV). <i>European Physical Journal C</i> , 2013 , 73, 1	4.2	21
424	Search for excited quarks in the $\bar{t}t$ jet final state in proton-proton collisions at $s=8$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2014 , 738, 274-293	4.2	21
423	Search for a Higgs boson in the decay channel $H \rightarrow ZZ(*) \rightarrow q(\overline{q}) \mu\mu$ in pp collisions at ($\sqrt{s} = 7$) TeV. <i>Journal of High Energy Physics</i> , 2012 , 2012, 1	5.4	21
422	Inclusive b-hadron production cross section with muons in pp collisions at ($\sqrt{s} = 7$; [text{TeV}]). <i>Journal of High Energy Physics</i> , 2011 , 2011, 1	5.4	21

4 ²¹	Search for large extra dimensions in the diphoton final state at the Large Hadron Collider. <i>Journal of High Energy Physics</i> , 2011 , 2011, 1	5.4	21
4 ²⁰	Search for New Particles Decaying into $b\bar{b}$ and Produced in Association with W Bosons Decaying into $e\bar{\nu}_e$ at the Fermilab Tevatron. <i>Physical Review Letters</i> , 1997 , 79, 3819-3824	7.4	21
4 ¹⁹	Search for Second Generation Leptoquarks in the Dimuon Plus Dijet Channel of pp Collisions at $\sqrt{s}=1.8\text{TeV}$. <i>Physical Review Letters</i> , 1998 , 81, 4806-4811	7.4	21
4 ¹⁸	Search for New Particles Decaying to $b\bar{b}$ in pp Collisions at $\sqrt{s}=1.8\text{TeV}$. <i>Physical Review Letters</i> , 1999 , 82, 2038-2043	7.4	21
4 ¹⁷	Study of hard double-parton scattering in four-jet events in pp collisions at ($\sqrt{s}=7$) TeV with the ATLAS experiment. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1	5.4	21
4 ¹⁶	Measurement of the integrated and differential $t\bar{t}$ production cross sections for high- p_T top quarks in pp collisions at $\sqrt{s}=8$ TeV. <i>Physical Review D</i> , 2016 , 94,	4.9	21
4 ¹⁵	Measurement of transverse momentum relative to dijet systems in PbPb and pp collisions at ($\sqrt{s_{\text{NN}}}=2.76$) TeV. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1	5.4	21
4 ¹⁴	Search for heavy neutral leptons in decays of W bosons produced in 13 TeV pp collisions using prompt and displaced signatures with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1	5.4	21
4 ¹³	Search for Higgs boson pair production in the channel using collision data recorded at TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2018 , 78, 1007	4.2	21
4 ¹²	Search for new phenomena in events with same-charge leptons and b-jets in pp collisions at ($\sqrt{s}=13$) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	21
4 ¹¹	Measurement of the azimuthal anisotropy of charged particles produced in $\sqrt{s}=5.02\text{TeV}$ Pb+Pb collisions with the ATLAS detector. <i>European Physical Journal C</i> , 2018 , 78, 997	4.2	21
4 ¹⁰	Search for doubly charged scalar bosons decaying into same-sign boson pairs with the ATLAS detector. <i>European Physical Journal C</i> , 2019 , 79, 58	4.2	20
4 ⁰⁹	Searches for supersymmetry based on events with b jets and four W bosons in pp collisions at 8 TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2015 , 745, 5-28	4.2	20
4 ⁰⁸	Searches for heavy diboson resonances in pp collisions at ($\sqrt{s}=13$) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1	5.4	20
4 ⁰⁷	Measurement of [Formula: see text] production with additional jet activity, including [Formula: see text] quark jets, in the dilepton decay channel using pp collisions at [Formula: see text]. <i>European Physical Journal C</i> , 2016 , 76, 379	4.2	20
4 ⁰⁶	Search for a low-mass pseudoscalar Higgs boson produced in association with a $b\bar{b}$ pair in pp collisions at $\sqrt{s}=8\text{TeV}$. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2016 , 758, 296-320	4.2	20
4 ⁰⁵	Measurement of ($W^{\pm}Z$) production cross sections and gauge boson polarisation in pp collisions at ($\sqrt{s}=13\text{TeV}$) with the ATLAS detector. <i>European Physical Journal C</i> , 2019 , 79, 1	4.2	20
4 ⁰⁴	Measurement of the production cross section for pairs of isolated photons in pp collisions at ($\sqrt{s}=7\text{TeV}$). <i>Journal of High Energy Physics</i> , 2012 , 2012, 1	5.4	20

403	Search for supersymmetry in events with photons and low missing transverse energy in pp collisions at $\sqrt{s}=7$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2013 , 719, 42-61	4.2	20
402	Observation of a diffractive contribution to dijet production in proton-proton collisions at $\sqrt{s}=7$ TeV. <i>Physical Review D</i> , 2013 , 87,	4.9	20
401	Searches for the $Z\gamma$ decay mode of the Higgs boson and for new high-mass resonances in pp collisions at ($\sqrt{s}=13$) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1	5.4	20
400	Search for new physics in events with opposite-sign leptons, jets, and missing transverse energy in pp collisions at $\sqrt{s}=7$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2013 , 718, 815-840	4.2	20
399	Search for a W boson decaying to a top and bottom quark pair in 1.8 TeV pp collisions. <i>Physical Review Letters</i> , 2003 , 90, 081802	7.4	20
398	Measurement of the top quark $p(T)$ distribution. <i>Physical Review Letters</i> , 2001 , 87, 102001	7.4	20
397	Direct measurement of the W boson width in $p\bar{p}$ collisions at $\sqrt{s}=1.8$ TeV. <i>Physical Review Letters</i> , 2000 , 85, 3347-52	7.4	20
396	Search for new resonances in mass distributions of jet pairs using 139 fb^{-1} of pp collisions at ($\sqrt{s}=13$) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1	5.4	20
395	Search for anomalous single top quark production in association with a photon in pp collisions at ($\sqrt{s}=8$) TeV. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1	5.4	20
394	Measurements of the $[Z\gamma]$ production cross section in lepton+jets final states in pp collisions at 8 $[Z\gamma]$ and ratio of 8 to 7 $[Z\gamma]$ cross sections. <i>European Physical Journal C</i> , 2017 , 77, 15	4.2	19
393	Measurement of the boson polarisation in $[Z\gamma]$ events from collisions at $[Z\gamma]=8$ TeV in the lepton+jets channel with ATLAS. <i>European Physical Journal C</i> , 2017 , 77, 264	4.2	19
392	Performance of top-quark and (W)-boson tagging with ATLAS in Run 2 of the LHC. <i>European Physical Journal C</i> , 2019 , 79, 1	4.2	19
391	Measurement of the W boson helicity in events with a single reconstructed top quark in pp collisions at ($\sqrt{s}=8$) TeV. <i>Journal of High Energy Physics</i> , 2015 , 2015, 1	5.4	19
390	Study of B Meson Production in p+Pb Collisions at $[Z\gamma]=5.02$ TeV Using Exclusive Hadronic Decays. <i>Physical Review Letters</i> , 2016 , 116, 032301	7.4	19
389	Search for massive WH resonances decaying into the $[Z\gamma]$ final state at $[Z\gamma]$. <i>European Physical Journal C</i> , 2016 , 76, 237	4.2	19
388	Operational experience, improvements, and performance of the CDF Run II silicon vertex detector. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2013 , 729, 153-181	1.2	19
387	Search for direct top squark pair production in final states with two leptons in TeV collisions with the ATLAS detector. <i>European Physical Journal C</i> , 2017 , 77, 898	4.2	19
386	Determination of the strong coupling constant from transverse energy-energy correlations in multijet events at using the ATLAS detector. <i>European Physical Journal C</i> , 2017 , 77, 872	4.2	19

385	Search for third-generation scalar leptoquarks in the $t\bar{t}$ channel in proton-proton collisions at ($\sqrt{s}=8$) TeV. <i>Journal of High Energy Physics</i> , 2015 , 2015, 1	5.4	19
384	Measurement of the production cross section for a W boson and two b jets in pp collisions at $\sqrt{s}=7$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2014 , 735, 204-225	4.2	19
383	Measurement of energy flow at large pseudorapidities in pp collisions at ($\sqrt{s} = 0.9$) and 7 TeV. <i>Journal of High Energy Physics</i> , 2011 , 2011, 1	5.4	19
382	Study of the heavy flavor content of jets produced in association with W bosons in pp collisions at $\sqrt{s}=1.8$ TeV. <i>Physical Review D</i> , 2002 , 65,	4.9	19
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380	Measurement of the $B_d^0 \bar{B}_d^0$ flavor oscillation frequency and study of same side flavor tagging of B mesons in pp collisions. <i>Physical Review D</i> , 1998 , 59,	4.9	19
379	Search for $B_s^0 \bar{B}_s^0$ Oscillations Using the Semileptonic Decay $B_s^0 \rightarrow \mu^+ X^-$ <i>Physical Review Letters</i> , 1999 , 82, 3576-3580	7.4	19
378	Study of Z production in PbPb and pp collisions at ($\sqrt{s_{\text{NN}}}=2.76$) TeV in the dimuon and dielectron decay channels. <i>Journal of High Energy Physics</i> , 2015 , 2015, 1	5.4	18
377	Observation of top quark pairs produced in association with a vector boson in pp collisions at ($\sqrt{s}=8$) TeV. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1	5.4	18
376	Search for long-lived neutral particles in pp collisions at ($\sqrt{s} = 13$ TeV) that decay into displaced hadronic jets in the ATLAS calorimeter. <i>European Physical Journal C</i> , 2019 , 79, 1	4.2	18
375	Searches for third-generation scalar leptoquarks in ($\sqrt{s} = 13$ TeV) pp collisions with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1	5.4	18
374	. <i>Journal of High Energy Physics</i> , 2014 , 2014, 1	5.4	18
373	Search for neutral MSSM Higgs bosons decaying into a pair of bottom quarks. <i>Journal of High Energy Physics</i> , 2015 , 2015, 1	5.4	18
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237	Probing the W tb vertex structure in t-channel single-top-quark production and decay in pp collisions at ($\sqrt{s}=8$) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1	5.4	11
236	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
235	Search for supersymmetry in the vector-boson fusion topology in proton-proton collisions at ($\sqrt{s}=8$) TeV. <i>Journal of High Energy Physics</i> , 2015 , 2015, 1	5.4	11
234	Search for supersymmetry with razor variables in pp collisions at $s=7$ TeV. <i>Physical Review D</i> , 2014 , 90,	4.9	11
233	Measurement of the underlying event activity in pp collisions at ($\sqrt{s} = 0.9$) and 7 TeV with the novel jet-area/median approach. <i>Journal of High Energy Physics</i> , 2012 , 2012, 1	5.4	11
232	Forward energy flow, central charged-particle multiplicities, and pseudorapidity gaps in W and Z boson events from pp collisions at ($\sqrt{s}=7$) TeV. <i>European Physical Journal C</i> , 2012 , 72, 1	4.2	11
231	Search for the standard model Higgs boson in the $H \rightarrow ZZ \rightarrow 4\ell$ decay channel in pp collisions at ($\sqrt{s} = 7$ TeV). <i>Journal of High Energy Physics</i> , 2012 , 2012, 1	5.4	11
230	Rapidity distributions in exclusive Z+jet and ℓ jet events in pp collisions at $s=7$ TeV. <i>Physical Review D</i> , 2013 , 88,	4.9	11
229	Search for first generation scalar leptoquarks in the . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2011 , 703, 246-266	4.2	11
228	Search for associated production of Upsilon and vector boson in pp collisions at $\sqrt{s}=1.8$ TeV. <i>Physical Review Letters</i> , 2003 , 90, 221803	7.4	11
227	Search for the supersymmetric partner of the top quark in pp collisions at $s=1.8$ TeV. <i>Physical Review D</i> , 2001 , 63,	4.9	11
226	Observation of Hadronic W Decays in $t\bar{t}$ Events with the Collider Detector at Fermilab. <i>Physical Review Letters</i> , 1998 , 80, 5720-5725	7.4	11
225	Search for TeV-scale gravity signatures in high-mass final states with leptons and jets with the ATLAS detector at $s=13$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2016 , 760, 520-537	4.2	11
224	Jet energy scale and resolution measured in proton-proton collisions at ($\sqrt{s}=13$) TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2021 , 81, 1	4.2	11

223	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
222	Measurement of the top quark mass using charged particles in pp collisions at $s=8$ TeV. <i>Physical Review D</i> , 2016 , 93,	4.9	10
221	Search for supersymmetry in pp collisions at $s=8$ TeV in final states with boosted W bosons and b jets using razor variables. <i>Physical Review D</i> , 2016 , 93,	4.9	10
220	Search for excited leptons in proton-proton collisions at ($\sqrt{s}=8$) TeV. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1	5.4	10
219	Measurement of spin correlations in $t\bar{t}$ production using the matrix element method in the muon+jets final state in pp collisions at $s=8$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2016 , 758, 321-346	4.2	10
218	Search for diboson resonances in hadronic final states in 139 fb ⁻¹ of pp collisions at (\sqrt{s}) = 13 TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1	5.4	10
217	Measurement of the hadronic activity in events with a Z and two jets and extraction of the cross section for the electroweak production of a Z with two jets in pp collisions at ($\sqrt{s}=7$) TeV. <i>Journal of High Energy Physics</i> , 2013 , 2013, 1	5.4	10
216	Search for physics beyond the standard model in events with leptons, jets, and large transverse momentum imbalance in pp collisions at [Formula: see text]. <i>European Physical Journal C</i> , 2013 , 73, 2493 ^{4.2}	4.2	10
215	Measurement of detector-corrected observables sensitive to the anomalous production of events with jets and large missing transverse momentum in collisions at $\sqrt{s}=7$ TeV using the ATLAS detector. <i>European Physical Journal C</i> , 2017 , 77, 765	4.2	10
214	Search for new physics with long-lived particles decaying to photons and missing energy in pp collisions at ($\sqrt{s}=7$) TeV. <i>Journal of High Energy Physics</i> , 2012 , 2012, 1	5.4	10
213	Search for new physics in final states with a lepton and missing transverse energy in pp collisions at the LHC. <i>Physical Review D</i> , 2013 , 87,	4.9	10
212	Search for contact interactions using the inclusive jet pT spectrum in pp collisions at $s=7$ TeV. <i>Physical Review D</i> , 2013 , 87,	4.9	10
211	Search for supersymmetry in events with a lepton, a photon, and large missing transverse energy in pp collisions at ($\sqrt{s}=7$) TeV. <i>Journal of High Energy Physics</i> , 2011 , 2011, 1	5.4	10
210	Measurement of the mass difference $m(D_s^+)-m(D^+)$ at CDF II. <i>Physical Review D</i> , 2003 , 68,	4.9	10
209	Measurement of the $Z\gamma\gamma$ production cross section in pp collisions at $s=8$ TeV and limits on anomalous $ZZ\gamma$ and $Z\gamma\gamma$ trilinear gauge boson couplings. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2016 , 760, 448-468	4.2	10
208	Measurement of the inelastic cross section in proton-lead collisions at $s_{NN}=5.02$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2016 , 759, 641-662	4.2	10
207	Search for the associated production of a Higgs boson with a single top quark in proton-proton collisions at ($\sqrt{s}=8$) TeV. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1	5.4	10
206	Measurements of $t\bar{t}$ charge asymmetry using dilepton final states in pp collisions at $s=8$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2016 , 760, 365-386	4.2	9

205	Azimuthal decorrelation of jets widely separated in rapidity in pp collisions at ($\sqrt{s}=7$) TeV. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1	5-4	9
204	Search for exotic decays of a Higgs boson into undetectable particles and one or more photons. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2016 , 753, 363-388	4-2	9
203	Search for baryon number violation in top-quark decays. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2014 , 731, 173-196	4-2	9
202	Search for a narrow, spin-2 resonance decaying to a pair of Z bosons in the . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2013 , 718, 1208-1228	4-2	9
201	Measurement of the ZZ production cross section in proton-proton collisions at ($\sqrt{s}=8$) TeV using the $ZZ \rightarrow \mu\mu +$ and ($ZZ \rightarrow \ell\ell^+ \ell\ell^+ \nu \overline{\nu}$) decay channels with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1	5-4	9
200	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
199	Search for supersymmetry in final states with a single lepton, b-quark jets, and missing transverse energy in proton-proton collisions at $s=7$ TeV. <i>Physical Review D</i> , 2013 , 87,	4-9	9
198	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
197	Measurements of the Higgs boson inclusive and differential fiducial cross sections in the $4(\ell)$ decay channel at (\sqrt{s}) = 13 TeV. <i>European Physical Journal C</i> , 2020 , 80, 1	4-2	9
196	Search for lepton flavour violating decays of heavy resonances and quantum black holes to an [Formula: see text] pair in proton-proton collisions at [Formula: see text]. <i>European Physical Journal C</i> , 2016 , 76, 317	4-2	9
195	Search for supersymmetry in final states with charm jets and missing transverse momentum in 13 TeV pp collisions with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5-4	9
194	Measurement of W boson angular distributions in events with high transverse momentum jets at $s=8$ TeV using the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2017 , 765, 132-153	4-2	8
193	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
192	Measurement of VH, ($\mathrm{H} \rightarrow \overline{\mathrm{b}}\mathrm{b}$) production as a function of the vector-boson transverse momentum in 13 TeV pp collisions with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1	5-4	8
191	Search for pairs of scalar leptoquarks decaying into quarks and electrons or muons in (\sqrt{s}) = 13 TeV pp collisions with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1	5-4	8
190	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
189	Search for s channel single top quark production in pp collisions at ($\sqrt{s}=7$) and 8 TeV. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1	5-4	8
188	Search for scalar resonances decaying into $\mu\mu$ events with and without b-tagged jets produced in proton-proton collisions at ($\sqrt{s}=13$) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1	5-4	8

187	Search for excited leptons in pp collisions at $\sqrt{s}=7$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2013 , 720, 309-329	4.2	8
186	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
185	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
184	A search for excited leptons in pp collisions at $\sqrt{s}=7$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2011 , 704, 143-162	4.2	8
183	Validation of Synthetic Diamond for a Beam Condition Monitor for the Compact Muon Solenoid Experiment. <i>IEEE Transactions on Nuclear Science</i> , 2007 , 54, 182-185	1.7	8
182	Central pseudorapidity gaps in events with a leading antiproton at the fermilab tevatron pp collider. <i>Physical Review Letters</i> , 2003 , 91, 011802	7.4	8
181	Evidence for $(\bar{t}t)$ production in the multilepton final state in proton-proton collisions at $(\sqrt{s}=13)$ (text {TeV}) with the ATLAS detector. <i>European Physical Journal C</i> , 2020 , 80, 1	4.2	8
180	Search for light long-lived neutral particles produced in pp collisions at $(\sqrt{s} = 13\text{-}\mathrm{TeV})$ and decaying into collimated leptons or light hadrons with the ATLAS detector. <i>European Physical Journal C</i> , 2020 , 80, 1	4.2	8
179	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
178	Measurements of top-quark pair spin correlations in the $(\mu\mu)$ channel at $(\sqrt{s} = 13)$ TeV using pp collisions in the ATLAS detector. <i>European Physical Journal C</i> , 2020 , 80, 1	4.2	8
177	Search for new phenomena in events with two opposite-charge leptons, jets and missing transverse momentum in pp collisions at $(\sqrt{s}) = 13$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1	5.4	8
176	Search for heavy resonances decaying into a pair of Z bosons in the $(\ell^+\ell^-\ell^+\ell^-)$ and $(\ell^+\ell^-\nu\bar{\nu})$ final states using 139 (fb^{-1}) of proton-proton collisions at $(\sqrt{s} = 13)$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2021 , 81, 1	4.2	8
175	Search for charged Higgs bosons decaying into a top quark and a bottom quark at $(\sqrt{s}) = 13$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1	5.4	8
174	Search for squarks and gluinos in final states with jets and missing transverse momentum using 139 fb^{-1} of $(\sqrt{s}) = 13$ TeV pp collision data with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1	5.4	8
173	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
172	Search for flavour-changing neutral current top-quark decays $t \rightarrow qZ$ in proton-proton collisions at $(\sqrt{s}=13)$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	8
171	Measurements of inclusive and differential fiducial cross-sections of $(\bar{t}\gamma)$ production in leptonic final states at $(\sqrt{s}=13\text{-}\mathrm{TeV})$ in ATLAS. <i>European Physical Journal C</i> , 2019 , 79, 1	4.2	7
170	Transverse momentum and process dependent azimuthal anisotropies in $(\sqrt{s}_{\mathrm{NN}}=8.16)$ TeV p+Pb collisions with the ATLAS detector. <i>European Physical Journal C</i> , 2020 , 80, 1	4.2	7

169	Search for new phenomena in high-mass final states with a photon and a jet from collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2018 , 78, 102	4.2	7
168	Search for squarks and gluinos in events with hadronically decaying tau leptons, jets and missing transverse momentum in proton-proton collisions at $\sqrt{s}=13$ TeV recorded with the ATLAS detector. <i>European Physical Journal C</i> , 2016 , 76, 683	4.2	7
167	Measurement of top quark polarisation in t-channel single top quark production. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1	5.4	7
166	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
165	Search for large missing transverse momentum in association with one top-quark in proton-proton collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1	5.4	7
164	Measurement of the $t\bar{t}\gamma$ 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
163	Measurements of top-quark pair to Z-boson cross-section ratios at $\sqrt{s}=13, 8, 7$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1	5.4	7
162	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
161	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
160	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
159	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
158	Measurement of the $Z\bar{\nu}$ production cross section in pp collisions at 8 TeV and search for anomalous triple gauge boson couplings. <i>Journal of High Energy Physics</i> , 2015 , 2015, 1	5.4	7
157	Tests of enhanced leading order QCD in W boson plus jets events from 1.8 TeV $p\bar{p}$ collisions. <i>Physical Review D</i> , 2001 , 63,	4.9	7
156	Cross section for forward J/ψ production in pp collisions at $\sqrt{s}=1.8$ TeV. <i>Physical Review D</i> , 2002 , 66,	4.9	7
155	Measurement of the differential dijet mass cross section in pp collisions at $\sqrt{s}=1.8$ TeV. <i>Physical Review D</i> , 2000 , 61,	4.9	7
154	Measurement of the polarization transfer parameter D_{NN} for $12,13C(p, n)$ reactions. <i>Physical Review C</i> , 1996 , 53, 1974-1977	4.9	7
153	Measurement of the transverse momentum distribution of Drell-Yan lepton pairs in proton-proton collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2020 , 80, 1	4.2	7
152	Search for type-III seesaw heavy leptons in dilepton final states in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2021 , 81, 1	4.2	7

151	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. <i>European Physical Journal C</i> , 2021 , 81, 1	4.2	7
150	Search for new phenomena in different-flavour high-mass dilepton final states in collisions at [Formula: see text]TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2016 , 76, 541	4.2	7
149	Searches for R-parity-violating supersymmetry in pp collisions at s=8 TeV in final states with 0 leptons. <i>Physical Review D</i> , 2016 , 94,	4.9	7
148	Measurement of (W^pm) boson production in Pb+Pb collisions at (sqrt{s_{\mathrm{NN}}}) = 5.02~text {TeV} (text {V}) with the ATLAS detector. <i>European Physical Journal C</i> , 2019 , 79, 1	4.2	7
147	Search for bottom-squark pair production with the ATLAS detector in final states containing Higgs bosons, b-jets and missing transverse momentum. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1	5.4	7
146	Measurements of WH and ZH production in the (H rightarrow bbar{b}) decay channel in pp collisions at (13, text {TeV} (text {V})) with the ATLAS detector. <i>European Physical Journal C</i> , 2021 , 81, 1	4.2	7
145	Measurement of the underlying event activity using charged-particle jets in proton-proton collisions at (sqrt{s}=2.76) TeV. <i>Journal of High Energy Physics</i> , 2015 , 2015, 1	5.4	6
144	Search for supersymmetry in electroweak production with photons and large missing transverse energy in pp collisions at s=8TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2016 , 759, 479-500	4.2	6
143	Measurement of dijet azimuthal decorrelation in pp collisions at [Formula: see text]. <i>European Physical Journal C</i> , 2016 , 76, 536	4.2	6
142	Search for anomalous production of highly boosted Z bosons decaying to nn in proton-proton collisions at s=7 TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2013 , 722, 28-47	4.2	6
141	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
140	Top-quark mass measurement in the all-hadronic (t) decay channel at (sqrt{s}=8) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1	5.4	6
139	Search for the standard model Higgs boson produced in association with W and Z bosons in pp collisions at (sqrt{s}=7) TeV. <i>Journal of High Energy Physics</i> , 2012 , 2012, 1	5.4	6
138	Measurement of the radiation field in CDF. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2003 , 513, 89-93	1.2	6
137	Search for the decay Bs->nn in pp collisions at s=1.8 TeV. <i>Physical Review D</i> , 2002 , 65,	4.9	6
136	Measurement of the Differential Cross Section for Events with Large Total Transverse Energy in pp Collisions at s=1.8TeV. <i>Physical Review Letters</i> , 1998 , 80, 3461-3466	7.4	6
135	Measurement of the (W+Jet)/(W) Cross Section Ratio from pp Collisions at s=1.8TeV. <i>Physical Review Letters</i> , 1998 , 81, 1367-1372	7.4	6
134	Measurement of bb rapidity correlations in pp collisions at s=1.8TeV. <i>Physical Review D</i> , 1999 , 61,	4.9	6

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132	Search for the associated production of the Higgs boson with a top-quark pair 2014 , 2014, 1	6	6
131	Search for (\overline{t}) resonances in fully hadronic final states in pp collisions at (\sqrt{s}) = 13 TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1	5.4	6
130	Search for new phenomena with top quark pairs in final states with one lepton, jets, and missing transverse momentum in pp collisions at (\sqrt{s}) = 13 TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1	5.4	6
129	Search for new phenomena in final states with b-jets and missing transverse momentum in ($\sqrt{\text{mathrm{s}}}$) = 13 TeV pp collisions with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1	5.4	6
128	Search for pair production of third-generation scalar leptoquarks decaying into a top quark and a lepton in pp collisions at (\sqrt{s}) = 13 TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1	5.4	6
127	Measurement of the ($Z \rightarrow \nu \overline{\nu}$) production cross section in pp collisions at (\sqrt{s}) = 13 TeV with the ATLAS detector and limits on anomalous triple gauge-boson couplings. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	6
126	Search for exclusive Higgs and Z boson decays to $\tau\tau$ and $\tau\nu$ with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	6
125	Measurement of jet activity produced in top-quark events with an electron, a muon and two -tagged jets in the final state in collisions at [Formula: see text] TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2017 , 77, 220	4.2	5
124	Measurement of the ratio of cross sections for inclusive isolated-photon production in pp collisions at (\sqrt{s}) = 13 and 8 TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1	5.4	5
123	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
122	Search for Higgs and Z Boson Decays to $\tau\nu$ with the ATLAS Detector. <i>Physical Review Letters</i> , 2016 , 117, 111802	7.4	5
121	Measurement of neutral strange particle production in the underlying event in proton-proton collisions at $s=7$ TeV. <i>Physical Review D</i> , 2013 , 88,	4.9	5
120	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
119	Production of leading charged particles and leading charged-particle jets at small transverse momenta in pp collisions at $s=8$ TeV. <i>Physical Review D</i> , 2015 , 92,	4.9	5
118	Search for supersymmetry with photons in pp collisions at $s=8$ TeV. <i>Physical Review D</i> , 2015 , 92,	4.9	5
117	Comparison of the $Z/\tau + \text{jets}$ to $\tau + \text{jets}$ cross sections in pp collisions at (\sqrt{s}) = 8 TeV. <i>Journal of High Energy Physics</i> , 2015 , 2015, 1	5.4	5
116	Search for jet extinction in the inclusive jet-pT spectrum from proton-proton collisions at $s=8$ TeV. <i>Physical Review D</i> , 2014 , 90,	4.9	5

115	Search for contact interactions in tt events in pp collisions at $\sqrt{s}=7$ TeV. <i>Physical Review D</i> , 2013 , 87,	4.9	5
114	Performance of CMS hadron calorimeter timing and synchronization using test beam, cosmic ray, and LHC beam data. <i>Journal of Instrumentation</i> , 2010 , 5, T03013-T03013	1	5
113	Measurement of B-meson lifetimes using fully reconstructed B decays produced in pp collisions at $\sqrt{s}=1.8$ TeV. <i>Physical Review D</i> , 2002 , 65,	4.9	5
112	Search for new heavy particles in the $WZ0$ final state in pp collisions at $\sqrt{s}=1.8$ TeV. <i>Physical Review Letters</i> , 2002 , 88, 071806	7.4	5
111	Study of $B0 \rightarrow J/\psi K^0 \pi^+ \pi^-$ decays with the collider detector at Fermilab. <i>Physical Review Letters</i> , 2002 , 88, 071801	7.4	5
110	Properties of photon plus two-jet events in pp collisions at $\sqrt{s}=1.8$ TeV. <i>Physical Review D</i> , 1998 , 57, 67-77	4.9	5
109	Measurement of energy flow at large pseudorapidities in pp collisions at ($\sqrt{s} = 0.9$) and 7 TeV 2011 , 2011, 1		5
108	Measurements of the production cross-section for a Z boson in association with b-jets in proton-proton collisions at (\sqrt{s}) = 13 TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1	5.4	5
107	Search for the $HH \rightarrow (b\bar{b})$ process via vector-boson fusion production using proton-proton collisions at (\sqrt{s}) = 13 TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1	5.4	5
106	Observation of the associated production of a top quark and a Z boson in pp collisions at (\sqrt{s}) = 13 TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1	5.4	5
105	Measurement of light-by-light scattering and search for axion-like particles with 2.2 nb of Pb+Pb data with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1	5.4	5
104	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
103	Search for supersymmetry in events with a photon, a lepton, and missing transverse momentum in pp collisions at $\sqrt{s}=8$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2016 , 757, 6-31	4.2	5
102	$\langle n_S \rangle$ polarizations versus particle multiplicity in pp collisions at $\sqrt{s}=7$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2016 , 761, 31-52	4.2	5
101	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
100	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
99	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
98	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

97	Distributions of topological observables in inclusive three- and four-jet events in pp collisions at [Formula: see text][Formula: see text]. <i>European Physical Journal C</i> , 2015 , 75, 302	4.2	4
96	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
95	Measurement of the ratio $B(Bs^0 \rightarrow J/\psi(980))/B(Bs^0 \rightarrow J/\psi(1020))$ in pp collisions at $\sqrt{s}=7$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2016 , 756, 84-102	4.2	4
94	Study of final-state radiation in decays of Z bosons produced in pp collisions at 7 TeV. <i>Physical Review D</i> , 2015 , 91,	4.9	4
93	Performance of the CMS Level-1 trigger during commissioning with cosmic ray muons and LHC beams. <i>Journal of Instrumentation</i> , 2010 , 5, T03002-T03002	1	4
92	Measurement of proton-induced radiation damage effects in double-sided silicon microstrip detectors. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1997 , 399, 76-84	1.2	4
91	Radiation effects in double-sided silicon sensors for CDF. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1998 , 418, 120-127	1.2	4
90	Search for heavy diboson resonances in semileptonic final states in pp collisions at ($\sqrt{s}=13$) TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2020 , 80, 1	4.2	4
89	Alignment of the ATLAS Inner Detector in Run 2. <i>European Physical Journal C</i> , 2020 , 80, 1	4.2	4
88	Measurement of J/ψ production in association with a W boson with pp data at 8 TeV. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1	5.4	4
87	Measurement of electroweak production of a W boson and two forward jets in proton-proton collisions at ($\sqrt{s}=8$) TeV. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1	5.4	4
86	Search for R-parity violating decays of a top squark in proton-proton collisions at $\sqrt{s}=8$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2016 , 760, 178-201	4.2	4
85	Measurement of the inclusive cross-section for the production of jets in association with a Z boson in proton-proton collisions at 8 TeV using the ATLAS detector. <i>European Physical Journal C</i> , 2019 , 79, 1	4.2	4
84	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
83	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
82	Radiation hardness studies of AMS HV-CMOS 350 nm prototype chip HVStripV1. <i>Journal of Instrumentation</i> , 2017 , 12, P02010-P02010	1	3
81	Measurement of long-range two-particle azimuthal correlations in Z-boson tagged pp collisions at ($\sqrt{s}=8$) and 13 TeV. <i>European Physical Journal C</i> , 2020 , 80, 1	4.2	3
80	Study of built-in amplifier performance on HV-CMOS sensor for the ATLAS phase-II strip tracker upgrade. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2016 , 831, 156-160	1.2	3

79	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
78	Search for excited electrons singly produced in proton-proton collisions at $\sqrt{s} \sim 13$ TeV with the ATLAS experiment at the LHC. <i>European Physical Journal C</i> , 2019 , 79,	4.2	3
77	Search for pair production of excited top quarks in the lepton + jets final state. <i>Journal of High Energy Physics</i> , 2014 , 2014, 1	5.4	3
76	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
75	Study of hadronic event-shape variables in multijet final states in pp collisions at ($\sqrt{s} = 7$) TeV. <i>Journal of High Energy Physics</i> , 2014 , 2014, 1	5.4	3
74	Measurement of the cross section for production of ($\overline{b} X$) decaying to muons in pp collisions at ($\sqrt{s} = 7$) TeV. <i>Journal of High Energy Physics</i> , 2012 , 2012, 1	5.4	3
73	Design and performance of improved Column Parallel CCD, CPC2. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2010 , 621, 192-204	1.2	3
72	Properties of six-jet events with large six-jet mass at the Fermilab proton-antiproton collider. <i>Physical Review D</i> , 1997 , 56, 2532-2543	4.9	3
71	Cross section and heavy quark composition of B_c events produced in pp collisions. <i>Physical Review D</i> , 2001 , 65,	4.9	3
70	Search for the rare decay $W \rightarrow D_s \tau$ in pp collisions at $s=1.8$ TeV. <i>Physical Review D</i> , 1998 , 58,	4.9	3
69	Search for the rare decay $W \rightarrow \tau \mu$ in proton-antiproton collisions at $s=1.8$ TeV. <i>Physical Review D</i> , 1998 , 58,	4.9	3
68	Measurement of the $\gamma + D^{*+/-}$ Cross Section in p-barp Collisions at $\sqrt{s}=1.8$ TeV. <i>Physical Review Letters</i> , 1996 , 77, 5005-5010	7.4	3
67	Measurement of K_S^0 and Λ^0 production in $t\bar{t}$ dileptonic events in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2019 , 79, 1	4.2	3
66	Determination of jet calibration and energy resolution in proton-proton collisions at ($\sqrt{s} = 8$ TeV) using the ATLAS detector. <i>European Physical Journal C</i> , 2020 , 80, 1	4.2	3
65	Measurement of the (\overline{t}) production cross section in the dilepton channel in pp collisions at ($\sqrt{s} = 8$ TeV) 2014 , 2014, 1		3
64	Reconstruction and identification of boosted di- τ systems in a search for Higgs boson pairs using 13 TeV proton-proton collision data in ATLAS. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1	5.4	3
63	Search for doubly and singly charged Higgs bosons decaying into vector bosons in multi-lepton final states with the ATLAS detector using proton-proton collisions at ($\sqrt{s} = 13$ TeV). <i>Journal of High Energy Physics</i> , 2021 , 2021, 1	5.4	3
62	Radiation hardness of two CMOS prototypes for the ATLAS HL-LHC upgrade project.. <i>Journal of Instrumentation</i> , 2016 , 11, C02005-C02005	1	3

61	Measurement of $W+W\bar{b}$ production in association with one jet in proton-proton collisions at $\sqrt{s}=8\text{TeV}$ with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2016 , 763, 114-133	4.2	3
60	Measurement of hadronic event shapes in high- p_T multijet final states at $(\sqrt{s}) = 13\text{TeV}$ with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1	5.4	3
59	Measurement of distributions sensitive to the underlying event in inclusive Z boson production in pp collisions at $(\sqrt{s}) = 13\text{TeV}$ with the ATLAS detector. <i>European Physical Journal C</i> , 2019 , 79, 1	4.2	2
58	Measurement of the $Z(\rightarrow \mu\mu)$ production cross-section in pp collisions at $(\sqrt{s}) = 13\text{TeV}$ with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1	5.4	2
57	Measurement of the differential cross sections for top quark pair production as a function of kinematic event variables in pp collisions at $\sqrt{s}=7$ and 8TeV . <i>Physical Review D</i> , 2016 , 94,	4.9	2
56	Search for dark matter particles in proton-proton collisions at $(\sqrt{s}=8)\text{TeV}$ using the razor variables. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1	5.4	2
55	The OverMOS project. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2016 , 824, 394-395	1.2	2
54	Search for $W \rightarrow tb$ in proton-proton collisions at $(\sqrt{s}=8)\text{TeV}$. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1	5.4	2
53	Search for the production of an excited bottom quark decaying to tW in proton-proton collisions at $(\sqrt{s}=8)\text{TeV}$. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1	5.4	2
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51	Calibration of the CMS drift tube chambers and measurement of the drift velocity with cosmic rays. <i>Journal of Instrumentation</i> , 2010 , 5, T03016-T03016	1	2
50	Fine synchronization of the CMS muon drift-tube local trigger using cosmic rays. <i>Journal of Instrumentation</i> , 2010 , 5, T03004-T03004	1	2
49	CMS data processing workflows during an extended cosmic ray run. <i>Journal of Instrumentation</i> , 2010 , 5, T03006-T03006	1	2
48	CVD diamond pixel development. <i>IEEE Transactions on Nuclear Science</i> , 2002 , 49, 1059-1062	1.7	2
47	Search for R-parity-violating supersymmetry in a final state containing leptons and many jets with the ATLAS experiment using $(\sqrt{s} = 13\text{TeV})$ proton-proton collision data. <i>European Physical Journal C</i> , 2021 , 81, 1	4.2	2
46	Search for dark matter in events with missing transverse momentum and a Higgs boson decaying into two photons in pp collisions at $(\sqrt{s}) = 13\text{TeV}$ with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1	5.4	2
45	Search for new physics in events with same-sign dileptons and b jets in pp collisions at $(\sqrt{s}=8)\text{TeV}$ 2013 , 2013, 1		2
44	Measurement of the inclusive isolated-photon cross section in pp collisions at $(\sqrt{s}) = 13\text{TeV}$ using 36fb^{-1} of ATLAS data. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1	5.4	2

43	Measurement of isolated-photon plus two-jet production in pp collisions at (\sqrt{s}) = 13 TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1	5.4	2
42	Optimisation of large-radius jet reconstruction for the ATLAS detector in 13 TeV proton-proton collisions. <i>European Physical Journal C</i> , 2021 , 81, 1	4.2	2
41	Search for supersymmetry in events with four or more charged leptons in 139 fb ⁻¹ of (\sqrt{s}) = 13 TeV pp collisions with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1	5.4	2
40	Measurement of ZZ production in the final state with the ATLAS detector in pp collisions at (\sqrt{s}) = 13 TeV. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1	5.4	2
39	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
38	Measurements of top-quark pair single- and double-differential cross-sections in the all-hadronic channel in pp collisions at (\sqrt{s}) = 13 TeV using the ATLAS detector. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1	5.4	2
37	Beam test results of FORTIS, a 4T MAPS sensor with a signal-to-noise ratio exceeding 100. <i>Journal of Instrumentation</i> , 2011 , 6, P12006-P12006	1	1
36	Performance of the CMS drift-tube chamber local trigger with cosmic rays. <i>Journal of Instrumentation</i> , 2010 , 5, T03003-T03003	1	1
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34	Vertex detector sensors for the International Linear Collider. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2006 , 569, 123-126	1.2	1
33	Measurement of the W-boson mass in pp collisions at (\sqrt{s} =7, \sqrt{s} {TeV}) with the ATLAS detector 2018 , 78, 1		1
32	Search for doubly charged Higgs boson production in multi-lepton final states with the ATLAS detector using proton-proton collisions at (\sqrt{s} =13, \sqrt{s} {TeV}) 2018 , 78, 1		1
31	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
30	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 2018 , 2018, 1		1
29	Measurement of differential cross sections for single diffractive dissociation in (\sqrt{s}) = 8 TeV pp collisions using the ATLAS ALFA spectrometer. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1	5.4	1
28	Search for direct production of electroweakinos in final states with missing transverse momentum and a Higgs boson decaying into photons in pp collisions at (\sqrt{s}) = 13 TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1	5.4	1
27	Search for Higgs boson production in association with a high-energy photon via vector-boson fusion with decay into bottom quark pairs at (\sqrt{s}) = 13 TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1	5.4	1
26	Determination of the parton distribution functions of the proton from ATLAS measurements of differential W^{\pm} and Z boson production in association with jets. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1	5.4	1

25	A search for the decays of stopped long-lived particles at $(\sqrt{s}) = 13$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1	5.4	1
24	Measurement of single top-quark production in association with a W boson in the single-lepton channel at $(\sqrt{s} = 8, \text{TeV})$ with the ATLAS detector. <i>European Physical Journal C</i> , 2021 , 81, 1	4.2	1
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22	Search for phenomena beyond the Standard Model in events with large b-jet multiplicity using the ATLAS detector at the LHC. <i>European Physical Journal C</i> , 2021 , 81, 1	4.2	1
21	Search for chargino-neutralino pair production in final states with three leptons and missing transverse momentum in $\sqrt{s} = 13$ TeV pp collisions with the ATLAS detector. <i>European Physical Journal C</i> , 2021 , 81, 1	4.2	1
20	Configuration and performance of the ATLAS b-jet triggers in Run 2. <i>European Physical Journal C</i> , 2021 , 81, 1	4.2	1
19	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
18	Performance of the ATLAS Level-1 topological trigger in Run 2. <i>European Physical Journal C</i> , 2022 , 82, 1	4.2	0
17	Search for exotic decays of the Higgs boson into $b\bar{b}$ and missing transverse momentum in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2022 , 2022, 1	5.4	0
16	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 13 TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2022 , 82, 1	4.2	0
15	Measurement of the $t(\bar{t})t(\bar{t})$ production cross section in pp collisions at $(\sqrt{s}) = 13$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1	5.4	0
14	Measurements of $W+W\bar{W}$ jet production cross-sections in pp collisions at $(\sqrt{s}) = 13$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1	5.4	0
13	Measurements of Higgs bosons decaying to bottom quarks from vector boson fusion production with the ATLAS experiment at $(\sqrt{s}=13, \text{TeV})$. <i>European Physical Journal C</i> , 2021 , 81, 1	4.2	0
12	Measurements of differential cross-sections in four-lepton events in 13 TeV proton-proton collisions with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1	5.4	0
11	Search for squarks and gluinos in final states with one isolated lepton, jets, and missing transverse momentum at $(\sqrt{s}=13)$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2021 , 81, 1	4.2	0
10	Search for Higgs bosons decaying into new spin-0 or spin-1 particles in four-lepton final states with the ATLAS detector with 139 fb ⁻¹ of pp collision data at $\sqrt{s} = 13$ TeV. <i>Journal of High Energy Physics</i> , 2022 , 2022, 1	5.4	0
9	AtlFast3: The Next Generation of Fast Simulation in ATLAS. <i>Computing and Software for Big Science</i> , 2022 , 6, 1	6	0
8	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 Run 2 data. <i>European Physical Journal C</i> , 2022 , 82, 1	4.2	0

7	Search for dark matter produced in association with a Standard Model Higgs boson decaying into b-quarks using the full Run 2 dataset from the ATLAS detector. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1	5.4	○
6	Measurement of the production cross section of pairs of isolated photons in pp collisions at 13 TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1	5.4	○
5	Search for exotic decays of the Higgs boson into long-lived particles in pp collisions at $\sqrt{s} = 13$ TeV using displaced vertices in the ATLAS inner detector. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1	5.4	○
4	Measurement of b-quark fragmentation properties in jets using the decay $B \rightarrow J/\psi$ in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1	5.4	○
3	Search for neutral color-octet weak-triplet scalar particles in proton-proton collisions at ($\sqrt{s}=8$) TeV. <i>Journal of High Energy Physics</i> , 2015 , 2015, 1	5.4	
2	CDF silicon tracking detectors, 1988-2011. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2013 , 699, 84-88	1.2	
1	The ATLAS inner detector trigger performance in pp collisions at 13 TeV during LHC Run 2. <i>European Physical Journal C</i> , 2022 , 82, 1	4.2	