

Shanzhen Chen

List of Publications by Year in descending order

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671
papers

37,434
citations

3149

92
h-index

6282

158
g-index

681
all docs

681
docs citations

681
times ranked

11605
citing authors

#	ARTICLE	IF	CITATIONS
1	The ATLAS Simulation Infrastructure. European Physical Journal C, 2010, 70, 823-874.	1.4	1,187
2	Test of Lepton Universality Using $B \rightarrow K^* \ell^+ \ell^-$ Decays Physical Review Letters, 2014, 113, 151601. http://www.w3.org/1998/Math/MathML	2.9	845
3	Measurement of the Ratio of Branching Fractions R_{D^*} Consistent with Pentaquark States in $B \rightarrow D^* p \bar{p}$ Resonances Measurement of the Ratio of Branching Fractions R_{D^*} Consistent with Pentaquark States in $B \rightarrow D^* p \bar{p}$ Resonances http://www.w3.org/1998/Math/MathML	2.9	816
4	Measurement of the Ratio of Branching Fractions R_{D^*} Consistent with Pentaquark States in $B \rightarrow D^* p \bar{p}$ Resonances http://www.w3.org/1998/Math/MathML		

#	ARTICLE	IF	CITATIONS
19	Luminosity determination in pp collisions at $\sqrt{s} = 8$ TeV using the ATLAS detector at the LHC. European Physical Journal C, 2016, 76, 653.	1.4	279
20	Measurements of the Higgs boson production and decay rates and coupling strengths using pp collision data at $\sqrt{s} = 7$ and 8 TeV in the ATLAS experiment. European Physical Journal C, 2016, 76, 6.	1.4	274
21	Jet energy measurement and its systematic uncertainty in proton-proton collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector. European Physical Journal C, 2015, 75, 17.	1.4	268
22	Performance of the ATLAS Trigger System in 2010. European Physical Journal C, 2012, 72, 1.	1.4	259
23	Electron performance measurements with the ATLAS detector using the 2010 LHC proton-proton collision data. European Physical Journal C, 2012, 72, 1.	1.4	248
24	Study of the decay $K^+ \rightarrow \pi^+ \ell^+ \nu_\ell$ in the momentum region $140 < P_{T^*} < 140$ GeV. Physical Review D, 2009, 79.	1.6	245
25	Search for new phenomena in final states with an energetic jet and large missing transverse momentum in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. European Physical Journal C, 2015, 75, 299.	1.4	238
26			

#	ARTICLE	IF	CITATIONS
37	Search for Neutrinos from Annihilation of Captured Low-Mass Dark Matter Particles in the Sun by Super-Kamiokande. <i>Physical Review Letters</i> , 2015, 114, 141301.	2.9	192
38	Angular analysis and differential branching fraction of the decay $B \rightarrow D^* \ell^+ \ell^-$. <i>Journal of High Energy Physics</i> , 2015, 2015, 1.	1.6	191
39	Test of lepton flavor universality by the measurement of the $B \rightarrow D^* \ell^+ \ell^-$ branching fraction using three-prong $B \rightarrow D^* \ell^+ \ell^- \ell^-$. <i>Physical Review D</i> , 2018, 97, 1.	1.6	189
40	Performance of missing transverse momentum reconstruction with the ATLAS detector using proton-proton collisions at $\sqrt{s} = 13$ TeV. <i>European Physical Journal C</i> , 2018, 78, 903.	1.4	181
41	Luminosity determination in pp collisions at $\sqrt{s} = 7$ TeV using the ATLAS detector at the LHC. <i>European Physical Journal C</i> , 2011, 71, 1.	1.4	179
42	Measurement of the distributions of event-by-event flow harmonics in lead-lead collisions at $\sqrt{s_{NN}} = 2.76$ TeV with the ATLAS detector at the LHC. <i>Journal of High Energy Physics</i> , 2013, 2013, 1.	1.6	175
43	Study of the spin and parity of the Higgs boson in diboson decays with the ATLAS detector. <i>European Physical Journal C</i> , 2015, 75, 476.	1.4	174
44	Electron and photon energy calibration with the ATLAS detector using LHC Run 1 data. <i>European Physical Journal C</i> , 2014, 74, 1.	1.4	172
45	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.	1.6	168
46	Direct CP Violating Asymmetry in $B \rightarrow K^* \ell^+ \ell^-$ Decays. <i>Physical Review Letters</i> , 2004, 93, 131801.	2.9	167
47	Observation of $C \rightarrow P \ell^+ \ell^-$ Violation in Charm Decays. <i>Physical Review Letters</i> , 2019, 122, 211803.	2.9	157
48	Measurement of the transverse momentum and $\phi_{\ell\ell}$ distributions of Drell-Yan lepton pairs in proton-proton collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2016, 76, 291.	1.4	154
49	Structures Consistent with Exotic States from Amplitude Analysis of $B \rightarrow D^* \ell^+ \ell^-$. <i>Physical Review Letters</i> , 2019, 122, 211803.	2.9	150
50	Search for $B \rightarrow D^* \ell^+ \ell^-$ Decays. <i>Physical Review Letters</i> , 2020, 124, 041801.	2.9	148
51	Measurement of double charmonium production in e^+e^- annihilations at $\sqrt{s} = 10.6$ GeV. <i>Physical Review D</i> , 2005, 72, 1.	1.6	147
52	Measurement of the top quark-pair production cross section with ATLAS in pp collisions at $\sqrt{s} = 7$ TeV. <i>European Physical Journal C</i> , 2011, 71, 1.	1.4	146
53	Search for direct production of charginos, neutralinos and sleptons in final states with two leptons and missing transverse momentum in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2014, 2014, 1.	1.6	145
54	Jet reconstruction and performance using particle flow with the ATLAS Detector. <i>European Physical Journal C</i> , 2017, 77, 466.	1.4	145

#	ARTICLE	IF	CITATIONS
55	Precision measurement and interpretation of inclusive W^+W^- production. European Physical Journal C, 2017, 77, 367.	1.4	145
56	Measurement of the $t\bar{t}$ production cross-section using b -tagged jets in pp collisions at $\sqrt{s}=7$ and 8TeV with the ATLAS detector. European Physical Journal C, 2014, 74, 3109.	1.4	143
57	Observation of a New D_s Meson Decaying to DK at a Mass of $2.86\text{GeV}/c^2$. Physical Review Letters, 2006, 97, 222001.	2.9	139
58	Search for Hidden-Sector Bosons in $B \rightarrow K^0 \mu^+ \mu^-$ decays. Physical Review Letters, 2015, 115, 161802.	2.9	138
59	ATLAS Run 1 searches for direct pair production of third-generation squarks at the Large Hadron Collider. European Physical Journal C, 2015, 75, 510.	1.4	138
60	Search for dark matter and other new phenomena in events with an energetic jet and large missing transverse momentum using the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1.	1.6	136
61	Search for doubly charmed baryons Λ_{cc}^{++} and Σ_{cc}^{++} in BABAR. Physical Review D, 2006, 74, .	1.6	135
62	Search for doubly charged Higgs boson production in multi-lepton final states with the ATLAS detector using proton-proton collisions at $\sqrt{s}=13\text{TeV}$. European Physical Journal C, 2018, 78, 199.	1.4	132
63	Measurement of the Z/γ^* boson transverse momentum distribution in pp collisions at $\sqrt{s}=7\text{TeV}$ with the ATLAS detector. Journal of High Energy Physics, 2014, 2014, 1.	1.6	131
64	Measurement of $C \rightarrow P^0 B^0$ -Averaged Observables in the $B \rightarrow K^0 \mu^+ \mu^-$ decays. Physical Review Letters, 2020, 125, 011802.	2.9	128
65	The large enriched germanium experiment for neutrinoless double beta decay (LEGEND). AIP Conference Proceedings, 2017, .	0.3	126
66	Search for electroweak production of supersymmetric particles in final states with two or three leptons at $\sqrt{s}=13\text{TeV}$ with the ATLAS detector. European Physical Journal C, 2018, 78, 995.	1.4	125
67	Search for the Standard Model Higgs boson produced in association with top quarks and decaying into $b\bar{b}$ in pp collisions at $\sqrt{s}=8\text{TeV}$ with the ATLAS detector. European Physical Journal C, 2015, 75, 1193-1236.	1.4	123
68	First Observation of the Doubly Charmed Baryon Decay $\Lambda_{cc}^{++} \rightarrow c\bar{c} + \mu^+ \mu^-$. Physical Review Letters, 2017, 118, 122001.	2.9	122
69	Readiness of the ATLAS Tile Calorimeter for LHC collisions. European Physical Journal C, 2010, 70, 1193-1236.	1.4	121
70			

#	ARTICLE	IF	CITATIONS
73	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. Journal of High Energy Physics, 2018, 2018, 1.	1.6	116
74	Measurements of top-quark pair differential cross-sections in the lepton+jets channel in pp collisions at $\sqrt{s} = 8$ TeV using the ATLAS detector. European Physical Journal C, 2016, 76, 538.	1.4	115
75	Observation of a Charmed Baryon Decaying to D ⁰ at a Mass Near 2.94 GeV/c ² . Physical Review Letters, 2007, 98, 012001.	2.9	114
76	Measurement of inclusive jet and dijet cross sections in proton-proton collisions at 7 TeV centre-of-mass energy with the ATLAS detector. European Physical Journal C, 2011, 71, 1.	1.4	114
77	Search for Dark Photons Produced in 13 TeV Collisions. Physical Review Letters, 2018, 120, 061801.	2.9	113
78	Model-Independent Study of Structure in B ⁺ D ⁺ Decays. Physical Review Letters, 2020, 125, 242001.	2.9	111
79	Search for Dark Photons Produced in 13 TeV Collisions. Physical Review Letters, 2016, 117, 082003.	2.9	110
80	Measurement of τ production with a veto on additional central jet activity in pp collisions at $\sqrt{s} = 7$ TeV using the ATLAS detector. European Physical Journal C, 2012, 72, 2043.	1.4	109
81	Searches for scalar leptoquarks in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. European Physical Journal C, 2016, 76, 5.	1.4	109
82	Constraints on new phenomena via Higgs boson couplings and invisible decays with the ATLAS detector. Journal of High Energy Physics, 2015, 2015, 1.	1.6	108
83	Search for heavy resonances decaying into WW in the $e^+e^- \mu^+\mu^-$ final state in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. European Physical Journal C, 2018, 78, 24.	1.4	108
84	Study of the doubly charmed tetraquark T_{cc}^+ . Nature Communications, 2022, 13, .	5.8	107
85	Measurement of the inclusive jet cross-section in pp collisions at $\sqrt{s} = 2.76$ TeV and comparison to the inclusive jet cross-section at $\sqrt{s} = 7$ TeV using the ATLAS detector. Model-Independent Evidence for χ Contributions to $B \rightarrow D^* \tau^+ \nu_\tau$. Physical Review D, 2014, 90, .	1.4	105
86	Search for heavy ZZ resonances in the $e^+e^- \mu^+\mu^-$ final states using proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. European Physical Journal C, 2018, 78, 293.	2.9	102
87	Measurements of prompt charm production cross-sections in pp collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2016, 2016, 1.	1.4	101
88	Dalitz plot analysis of $B \rightarrow D^* \tau^+ \nu_\tau$ and the sign of the tau neutrino helicity. Physical Review D, 1999, 61, .	1.6	100
89	Hadronic structure in the decay $B \rightarrow D^* \tau^+ \nu_\tau$ and the sign of the tau neutrino helicity. Physical Review D, 1999, 61, .	1.6	99
90	Hadronic structure in the decay $B \rightarrow D^* \tau^+ \nu_\tau$ and the sign of the tau neutrino helicity. Physical Review D, 1999, 61, .	1.6	98

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91	Angular Analysis of the $B \rightarrow K^* \ell^+ \ell^-$ Decay. Physical Review Letters, 2021, 126, 161802.	2.9	96
92	The ATLAS Inner Detector commissioning and calibration. European Physical Journal C, 2010, 70, 787-821.	1.4	95
93	Constraints on the off-shell Higgs boson signal strength in the high-mass ZZ and WW final states with the ATLAS detector. European Physical Journal C, 2015, 75, 335.	1.4	95
94	Search for new phenomena in events with at least three photons collected in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. European Physical Journal C, 2016, 76, 210.	1.4	95
95	Observation of New Resonances Decaying to $\mu^+ \mu^-$ and $\mu^+ \mu^- \gamma$. Physical Review Letters, 2017, 118, 021801.	2.9	93
96	Measurements of the W production cross sections in association with jets with the ATLAS detector. European Physical Journal C, 2015, 75, 82.	1.4	92
97	Amplitude analysis of $B \rightarrow J \ell^+ \ell^-$. Physical Review D, 2017, 95, 034005.	1.6	92
98	Search for Higgs boson pair production in the $b\bar{b}b\bar{b}$ final state from pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. European Physical Journal C, 2015, 75, 412.	1.4	90
99	Jet mass and substructure of inclusive jets in $\sqrt{s} = 7$; $\sqrt{s} = 8$ TeV pp collisions with the ATLAS experiment. Journal of High Energy Physics, 2012, 2012, 1.	1.6	88
100	Electron efficiency measurements with the ATLAS detector using 2012 LHC proton-proton collision data. European Physical Journal C, 2017, 77, 195.	1.4	87
101	Measurement of multi-particle azimuthal correlations in pp, pPb and low-multiplicity PbPb collisions with the ATLAS detector. European Physical Journal C, 2017, 77, 428.	1.4	86
102	Observation of the Semileptonic Decays $B \rightarrow D^* \ell^+ \ell^-$ and Evidence for $B \rightarrow D^* \ell^+ \ell^- \gamma$. Physical Review Letters, 2008, 100, 021801.	2.9	85
103	Differential branching fraction and angular analysis of $B \rightarrow D^* \ell^+ \ell^-$ decays. Journal of High Energy Physics, 2015, 2015, .	1.6	82
104	Measurement of the prompt J/ψ pair production cross-section in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. European Physical Journal C, 2017, 77, 76.	1.4	81
105	Search for the Decays $B \rightarrow D^* \ell^+ \ell^-$ and $B \rightarrow D^* \ell^+ \ell^- \gamma$. Physical Review Letters, 2014, 113, 162001.	2.9	81
106	Observation of Overlapping Spin-1 and Spin-3 Decays $B \rightarrow D^* \ell^+ \ell^-$. Physical Review Letters, 2014, 113, 162001.	2.9	80
107	Dalitz plot analysis of $B \rightarrow D^* \ell^+ \ell^-$ at $\sqrt{s} = 13.6$ TeV. Physical Review Letters, 2015, 115, 162001.	1.6	80
108	Search for dark matter at $\sqrt{s} = 13$ TeV in final states containing an energetic photon and large missing transverse momentum with the ATLAS detector. European Physical Journal C, 2017, 77, 393.	1.4	80

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109	Measurement of the Cabibbo-Kobayashi-Maskawa Angle β_1 in $D^0 \rightarrow \pi^+ \pi^- \pi^0$ Decays with a Dalitz Analysis of $D^0 \rightarrow \pi^+ \pi^- \pi^0$. Physical Review Letters, 2005, 95, 121802.	2.9	79
110	Search for production of W^+W^- resonances decaying to a lepton, neutrino and jets in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. European Physical Journal C, 2015, 75, 209.	1.4	79
111	Search for heavy particles in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. European Physical Journal C, 2015, 75, 209.	1.6	79
112	Search for lepton-flavour-violating decays of the Higgs and Z bosons with the ATLAS detector. European Physical Journal C, 2017, 77, 70.	1.4	79
113	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. Confirmation of a charged charmonium-like state. Physical Review Letters, 2016, 117, 072002.	1.4	79
114	Search for Structure in the B_c Mass Spectrum. Physical Review Letters, 2016, 117, 152003.	1.4	78
115	Light-quark and gluon jet discrimination in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector. European Physical Journal C, 2014, 74, 3023.	1.4	77
116	Search for dark matter in events with heavy quarks and missing transverse momentum in pp collisions with the ATLAS detector. European Physical Journal C, 2015, 75, 92.	1.4	77
117	Study of the production of and hadrons in pp collisions and first measurement of the branching fraction. Chinese Physics C, 2016, 40, 011001.	1.5	77
118	Observation of a New B_c Resonance. Physical Review Letters, 2016, 117, 072002.	2.9	77
119	Branching Fraction Measurements of the Rare B_c Resonance. Physical Review Letters, 2016, 117, 072002.	2.9	77
120	Search for heavy particles in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. European Physical Journal C, 2015, 75, 209.	1.4	77
121	First Indication of Terrestrial Matter Effects on Solar Neutrino Oscillation. Physical Review Letters, 2014, 112, 091805.	2.9	76
122	Measurement of the Lifetime of the Doubly Charmed Baryon Λ_{cc}^+ . Physical Review Letters, 2018, 121, 052002.	2.9	76
123	Measurements of the S-wave fraction in $B^0 \rightarrow K^+ \pi^- \pi^0$ decays and the $B^0 \rightarrow K^+ \pi^- \pi^0$ differential branching. Journal of High Energy Physics, 2016, 2016, 1.	1.6	75
124	Performance of the ATLAS track reconstruction algorithms in dense environments in LHC Run 2. European Physical Journal C, 2017, 77, 673.	1.4	75
125	Measurement of quarkonium production in proton-lead and proton-proton collisions at $\sqrt{s} = 5.02$ TeV with the ATLAS detector. European Physical Journal C, 2018, 78, 171.	1.4	75
126	Search for resonant diboson production in the pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. European Physical Journal C, 2015, 75, 69.	1.4	74

#	ARTICLE	IF	CITATIONS
127	Measurement of the inclusive and dijet cross-sections of b-jets in pp collisions at $\sqrt{s}=7\text{ TeV}$ with the ATLAS detector. European Physical Journal C, 2011, 71, 1.	1.4	73
128	Measurement of the production cross section of jets in association with a Z boson in pp collisions at $\sqrt{s}=7\text{ TeV}$ with the ATLAS detector. Journal of High Energy Physics, 2013, 2013, 1.	1.6	73
129	Measurement of the $\eta_c(1S)$ production cross-section in proton-proton collisions via		

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145	A search for $t\bar{t} \rightarrow \text{toverline{t}}\text{toverline{t}}$ resonances using lepton-plus-jets events in proton-proton collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2015, 2015, 1.	1.6	66
146	A search for pair-produced resonances in four-jet final states at $\sqrt{s} = 13$ TeV with the ATLAS detector. European Physical Journal C, 2018, 78, 250.	1.4	66
147	Search for CP violation in the Decays $D_0 \rightarrow K^+ K^-$ and $D_0 \rightarrow \bar{K}^+ \bar{K}^-$. Physical Review Letters, 2008, 100, 061803.	2.9	65
148	Measurements of $C \rightarrow P$ violation in the three-body phase space of charmless $B \rightarrow A_{\pm}$ decays. Physical Review D, 2014, 90.	1.6	65
149	Violation in $B \rightarrow S$	2.9	65
150	Observation and measurements of the production of prompt and non-prompt Z boson in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. European Physical Journal C, 2015, 75, 229.	1.4	64
151	Evidence for the $H \rightarrow b\bar{b}$ decay with the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1.	1.6	64
152	Measurement of the differential cross-sections of prompt and non-prompt production of J/ψ and $\psi(2S)$ in pp collisions at $\sqrt{s} = 7$ and 8 TeV with the ATLAS detector. European Physical Journal C, 2016, 76, 283.	1.4	63
153	Performance of the ATLAS muon trigger in pp collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2015, 75, 120.	1.4	62
154	Identification of boosted, hadronically decaying W bosons and comparisons with ATLAS data taken at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2016, 76, 154.	1.4	62
155	Readiness of the ATLAS liquid argon calorimeter for LHC collisions. European Physical Journal C, 2010, 70, 723-753.	1.4	61
156	Measurements of top quark pair relative differential cross-sections with ATLAS in pp collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2013, 73, 1.	1.4	61
157	Measurement of $B \rightarrow c$ in Proton-Proton Collisions at $\sqrt{s} = 7$ TeV. Physical Review Letters, 2015, 114, 122001.	2.9	61
158	Charged-particle distributions at low transverse momentum in $\sqrt{s} = 13$ TeV pp interactions measured with the ATLAS detector at the LHC. European Physical Journal C, 2016, 76, 502.	1.4	61
159	Performance of algorithms that reconstruct missing transverse momentum in $\sqrt{s} = 8$ TeV proton-proton collisions in the ATLAS detector. European Physical Journal C, 2017, 77, 241.	1.4	61
160	Prompt and non-prompt J/ψ and $\psi(2S)$ suppression at high transverse momentum in 5.02 TeV Pb+Pb collisions with the ATLAS experiment. European Physical Journal C, 2018, 78, 762.	1.4	61
161	Search for doubly charged scalar bosons decaying into same-sign W boson pairs with the ATLAS detector. European Physical Journal C, 2019, 79, 58.	1.4	61
162	Summary of the searches for squarks and gluinos using $\sqrt{s} = 8$ TeV pp collisions with the ATLAS experiment at the LHC. Journal of High Energy Physics, 2015, 2015, 1.	1.6	60

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163	Measurement of forward J/ψ production cross-sections in pp collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2015, 2015, 1.	1.6	60
164	Measurement of the centrality dependence of the charged-particle pseudorapidity distribution in proton-lead collisions at $\sqrt{s_{NN}} = 5.02$ TeV with the ATLAS detector. European Physical Journal C, 2016, 76, 199.	1.4	60
165	Search for dark matter produced in association with bottom or top quarks in $\sqrt{s} = 13$ TeV pp collisions with the ATLAS detector. European Physical Journal C, 2018, 78, 18.	1.4	60
166	Measurement of the production of a W boson in association with a charm quark in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector. Journal of High Energy Physics, 2014, 2014, 1.	1.6	59
167	Search for direct top-squark pair production in final states with two leptons in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2014, 2014, 1.	1.6	59
168	Measurement of forward W and Z boson production in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2016, 2016, .	1.6	59
169	Measurement of longitudinal flow decorrelations in Pb+Pb collisions at $\sqrt{s_{NN}} = 2.76$ and 5.0 TeV. European Physical Journal C, 2018, 78, 142.	1.4	59
170	Improved search for heavy neutrinos in the decay $\mu \rightarrow e \gamma$. Physical Review D, 2018, 97, .	1.6	59
171	Muon reconstruction efficiency and momentum resolution of the ATLAS experiment in proton-proton collisions at $\sqrt{s} = 7$ TeV in 2010. European Physical Journal C, 2014, 74, 3034.	1.4	58
172	Measurement of the W boson polarization in top quark decays with the ATLAS detector. Journal of High Energy Physics, 2012, 2012, 1.	1.6	57
173	Evidence for an $\eta(1S) \pi^+ \pi^-$ resonance in $B^0 \rightarrow \eta(1S) K^+ \pi^-$		

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181	Measurements of fiducial cross-sections for $t\bar{t}$ production with one or two additional b-jets in pp collisions at $\sqrt{s} = 8$ TeV using the ATLAS detector. European Physical Journal C, 2016, 76, 11.	1.4	54
182	Study of the $D^0 \rightarrow b \bar{c} \ell^+ \ell^-$ decays. Journal of High Energy Physics, 2017, 2017, 11.6		54
183	Search for massive long-lived particles decaying semileptonically in the LHCb detector. European Physical Journal C, 2017, 77, 224.	1.4	54
184	Search for Higgs boson pair production in the $\gamma\gamma \rightarrow W^+W^-$ channel using pp collision data recorded at $\sqrt{s} = 13$ TeV with the ATLAS detector. European Physical Journal C, 2018, 78, 1007.	1.4	53
185	Measurement of the hadronic form factor in $D \rightarrow \ell^+ \ell^-$ decays. Physical Review D, 2007, 76, .	1.6	52
186	Performance of jet substructure techniques for large-R jets in proton-proton collisions at $\sqrt{s} = 7$ TeV using the ATLAS detector. Journal of High Energy Physics, 2013, 2013, 1.	1.6	52
187	Measurement of CP asymmetry in $D^0 \rightarrow K^+ K^-$ and $D^0 \rightarrow \bar{K}^+ \bar{K}^-$ decays. Journal of High Energy Physics, 2014, 2014, 1.	1.6	52
188	Measurement of the exclusive Υ production cross-section in pp collisions at $\sqrt{s} = 7$ TeV and 8 TeV. Journal of High Energy Physics, 2015, 2015, 1.	1.6	52
189	Search for lepton-flavour-violating $H \rightarrow \tau \mu$, decays of the Higgs boson with the ATLAS detector. Journal of High Energy Physics, 2015, 2015, 1.	1.6	52
190	Measurement of the top quark mass in the $t \rightarrow \text{lepton} + \text{jets}$ and $t \rightarrow \text{dilepton}$ channels using $\sqrt{s} = 7$ TeV ATLAS data. European Physical Journal C, 2015, 75, 330.	1.4	52
191	Measurement of the b -Quark Production Cross Section in 7 and 13 TeV Collisions. Physical Review Letters, 2017, 118, 052002.	2.9	52
192	Search for the direct production of charginos and neutralinos in final states with tau leptons in $\sqrt{s} = 13$ TeV pp collisions with the ATLAS detector. European Physical Journal C, 2018, 78, 154.	1.4	52
193	Drift Time Measurement in the ATLAS Liquid Argon Electromagnetic Calorimeter using Cosmic Muons. European Physical Journal C, 2010, 70, 755-785.	1.4	51
194	Search for minimal supersymmetric standard model Higgs Bosons H/A and for a Z^{\prime} boson in the $\text{au} \rightarrow \ell^+ \ell^-$ final state produced in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. European Physical Journal C, 2016, 76, 585.	1.4	51
195	Measurement of the charged-particle multiplicity inside jets from $\sqrt{s} = 8$ TeV pp collisions with the ATLAS detector. European Physical Journal C, 2016, 76, 322.	1.4	51
196	Measurement of the phase difference between short- and long-distance amplitudes in the $B^+ \rightarrow K^+ \ell^+ \ell^-$ decay. European Physical Journal C, 2017, 77, 161.	1.4	51
197	Measurement of jet fragmentation in Pb+Pb and pp collisions at $\sqrt{s_{NN}} = 2.76$ TeV. European Physical Journal C, 2017, 77, 379.	1.4	51
198	Measurement of the azimuthal anisotropy of charged particles produced in $\sqrt{s_{NN}} = 5.02$ TeV Pb+Pb collisions with the ATLAS detector. European Physical Journal C, 2018, 78, 997.	1.4	51

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199	Measurement of b hadron fractions in 13 TeV pp collisions with the ATLAS detector. <i>Physical Review Letters</i> , 2017, 119, 112001.	1.6	51
200	Measurement of the $B \rightarrow D^* \tau \nu_\tau$ decay properties and search for the $B \rightarrow D^* \tau \nu_\tau$ decay. <i>Physical Review D</i> , 2017, 95, 012001.	1.6	51
201	First observation and amplitude analysis of the $B \rightarrow D^* \tau \nu_\tau$ decay. <i>Physical Review D</i> , 2015, 91, 012001.	1.6	50
202	Reconstruction of hadronic decay products of tau leptons with the ATLAS experiment. <i>European Physical Journal C</i> , 2016, 76, 295.	1.4	50
203	Search for direct top squark pair production in final states with two leptons in $\sqrt{s} = 13$ TeV pp collisions with the ATLAS detector. <i>European Physical Journal C</i> , 2017, 77, 898.	1.4	50
204	Search for a new heavy gauge-boson resonance decaying into a lepton and missing transverse momentum in 36 fb^{-1} of pp collisions at $\sqrt{s} = 13$ TeV. <i>European Physical Journal C</i> , 2018, 78, 401.	1.4	50
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480	Measurement of the Charm-Mixing Parameter γ_{CP} . <i>Physical Review Letters</i> , 2019, 122, 011802.	2.9	15
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482	Search for heavy neutral leptons in $W^+ \rightarrow \mu^+ \mu^{\pm}$, ext {jet} decays. <i>European Physical Journal C</i> , 2021, 81, 1.	1.4	15
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520	Measurement of $B^0 \rightarrow K^+ K^-$ and $B^0 \rightarrow K^+ K^-$ decays. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 774, 139-158.	1.5	13
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526	Measurement of the time-dependent CP asymmetries in B s O \hat{a}^+ K \hat{a}^- O. <i>Journal of High Energy Physics</i> , 2015, 2015, .	1.6	12
527	Measurement of the $b\bar{b}$ dijet cross section in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2016, 76, 670.	1.4	12
528	A new algorithm for identifying the flavour of B_c mesons at LHCb. <i>Journal of Instrumentation</i> , 2016, 11, P05010-P05010.	0.5	12
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530	Search for Bc+ decays to the pp \hat{a}^+ final state. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2016, 759, 313-321.	1.5	12
531	Observation of Bc+ \hat{a}^+ D(*)K(*) decays. <i>Physical Review D</i> , 2017, 95, .	1.6	12
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533	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.	1.6	12
534	Search for decays of neutral beauty mesons into four muons. <i>Journal of High Energy Physics</i> , 2017, 2017, 1.	1.6	12
535	Measurement of the meson production fraction and asymmetry in 7 and 13 TeV collisions. <i>Physical Review D</i> , 2019, 100, .	1.6	12
536	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.	1.4	12
537	Measurements of the inclusive and differential production cross sections of a top-quark-antiquark pair in association with a Z boson at $\sqrt{s} = 13$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2021, 81, 1.	1.4	12
538	Alignment of the ATLAS Inner Detector in Run 2. <i>European Physical Journal C</i> , 2020, 80, 1.	1.4	12
539	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.	1.4	12
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548	New algorithms for identifying the flavour of B^0 mesons using pions and protons. European Physical Journal C, 2017, 77, 238.	1.4	11
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557	Study of $\overline{b} \rightarrow b$ correlations in high energy proton-proton collisions. Journal of High Energy Physics, 2017, 2017, 1.	1.6	10
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671	$\hat{b}^0\hat{t}^{\dagger}\hat{l}_c+K+K\hat{a}^{\dagger}\hat{l}\hat{e}\hat{a}^{\dagger}$	1.6	0