

# Timothy Andeen

## List of Publications by Year in descending order

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Version: 2024-02-01

413  
papers

27,961  
citations

10956

71  
h-index

7333

152  
g-index

432  
all docs

432  
docs citations

432  
times ranked

11461  
citing authors

#	ARTICLE	IF	CITATIONS
1	Observation of a new particle in the search for the Standard Model Higgs boson with the ATLAS detector at the LHC. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 716, 1-29.	1.5	6,386
2	The ATLAS Simulation Infrastructure. European Physical Journal C, 2010, 70, 823-874.	1.4	1,187
3	Combined Measurement of the Higgs Boson Mass in $pp$ Collisions at $\sqrt{s} = 7$ and $8$ TeV with the ATLAS and CMS Experiments. Physical Review Letters, 2015, 114, 191803.	2.9	1,062
4	Performance of the ATLAS trigger system in 2015. European Physical Journal C, 2017, 77, 317.	1.4	489
5	Measurements of the Higgs boson production and decay rates and constraints on its couplings from a combined ATLAS and CMS analysis of the LHC $pp$ collision data at $\sqrt{s} = 7$ and $8$ TeV. Journal of High Energy Physics, 2016, 2016, 1.	1.6	473
6	Muon reconstruction performance of the ATLAS detector in proton-proton collision data at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2016, 76, 292.	1.4	453
7	Topological cell clustering in the ATLAS calorimeters and its performance in LHC Run 1. European Physical Journal C, 2017, 77, 490.	1.4	325
8	Evidence for the spin-0 nature of the Higgs boson using ATLAS data. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 726, 120-144.	1.5	307
9	Performance of pile-up mitigation techniques for jets in $pp$ collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2016, 76, 581.	1.4	298
10	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
11	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
12	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
13	Performance of the ATLAS Trigger System in 2010. European Physical Journal C, 2012, 72, 1.	1.4	259
14	Combined measurements of Higgs boson production and decay using up to $80$ fb $^{-1}$ of proton-proton collision data at $\sqrt{s} = 7$ TeV. Physical Review D, 2020, 101, .	2.1	241
15			

#	ARTICLE	IF	CITATIONS
19	Jet energy resolution in proton-proton collisions at $\sqrt{s}=7$ TeV recorded in 2010 with the ATLAS detector. European Physical Journal C, 2013, 73, 2306.	1.4	209
20	Measurement of the jet radius and transverse momentum dependence of inclusive jet suppression in lead-lead collisions at $\sqrt{s}=2.76$ TeV with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 342, 116.	2.76	195
21	Measurement of the inelastic Proton-Proton Cross Section at $\sqrt{s}=13$ TeV with the ATLAS Detector at the LHC. Physical Review Letters, 2016, 117, 182002.	2.9	185
22	Performance of missing transverse momentum reconstruction with the ATLAS detector using proton-proton collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2018, 78, 903.	1.4	181
23	Study of the spin and parity of the Higgs boson in diboson decays with the ATLAS detector. European Physical Journal C, 2015, 75, 476.	1.4	174
24	Observation of Higgs boson production in association with a top quark pair at the LHC with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 784, 173-191.	1.5	169
25	Search for new high-mass phenomena in the dilepton final state using 36 fb <sup>-1</sup> of proton-proton collision data at $\sqrt{s}=13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1.	1.6	168
26	Measurements of Higgs boson production and couplings in the four-lepton channel in proton-proton collisions at center-of-mass energies of 7 and 8 TeV with the ATLAS detector. Physical Review D, 2015, 91, 112004.	1.6	158
27	Jet energy scale measurements and their systematic uncertainties in proton-proton collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. Physical Review D, 2017, 96, 112004.	1.6	157
28	Measurement of the top quark-pair production cross section with ATLAS in pp collisions at $\sqrt{s}=7$ TeV. European Physical Journal C, 2011, 71, 1.	1.4	146
29	Jet reconstruction and performance using particle flow with the ATLAS Detector. European Physical Journal C, 2017, 77, 466.	1.4	145
30	Precision measurement and interpretation of inclusive $W^+W^-$ production with the ATLAS detector. European Physical Journal C, 2017, 77, 367.	1.4	145
31	Combination of the Searches for Pair-Produced Vectorlike Partners of the Third-Generation Quarks at $\sqrt{s}=13$ TeV with the ATLAS Detector. Physical Review Letters, 2018, 121, 211801.	2.9	145
32	Observation of Higgs boson decays and VH production with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 784, 173-191.	1.5	138
33	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
34	Combination of Searches for Invisible Higgs Boson Decays with the ATLAS Experiment. Physical Review Letters, 2019, 122, 231801.	2.9	133
35	Search for doubly charged Higgs boson production in multi-lepton final states with the ATLAS detector using proton-proton collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2018, 78, 199.	1.4	132
36	Measurement of the $Z/\gamma^*$ boson transverse momentum distribution in pp collisions at $\sqrt{s}=7$ TeV with the ATLAS detector. Journal of High Energy Physics, 2014, 2014, 1.	1.6	131

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37	Search for Invisible Decays of a Higgs Boson Produced in Association with a $Z$ Boson in ATLAS. Physical Review Letters, 2014, 112, .	2.9	130
38	ATLAS b-jet identification performance and efficiency measurement with $t\bar{t}$ events in pp collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2019, 79, 1.	1.4	130
39	Search for electroweak production of supersymmetric particles in final states with two or three leptons at $\sqrt{s}=13$ TeV with the ATLAS detector. European Physical Journal C, 2018, 78, 995.	1.4	125
40	Electron and photon performance measurements with the ATLAS detector using the 2015–2017 LHC proton-proton collision data. Journal of Instrumentation, 2019, 14, P12006-P12006.	0.5	124
41	Search for electroweak production of charginos and sleptons decaying into final states with two leptons and missing transverse momentum in $\sqrt{s}=13$ TeV pp collisions using the ATLAS detector. European Physical Journal C, 2020, 80, 1.	1.4	124
42	Measurement of the inclusive isolated prompt photon cross section in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. Physical Review D, 2011, 83, .	1.6	121
43	Search for additional heavy neutral Higgs and gauge bosons in the ditau final state produced in 36 fb <sup>-1</sup> of pp collisions at $s = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1.	1.6	116
44	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
45	Measurement of the inclusive isolated prompt photon cross section in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. Physical Review D, 2011, 83, .	1.6	115
46	Observation and measurement of Higgs boson decays to $WW$ at $\sqrt{s}=13$ TeV with the ATLAS detector. Physical Review D, 2015, 92, .	1.6	110
47	Search for heavy resonances decaying into $WW$ in the $e\mu u$ final state in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. European Physical Journal C, 2018, 78, 24.	1.4	108
48	Measurement of the shape of the boson rapidity distribution for $p\bar{p}$ collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. Physical Review D, 2007, 76, .	1.6	101
49	Search for heavy ZZ resonances in the $e\ell^+e\ell^-$ final states using proton–proton collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. European Physical Journal C, 2018, 78, 293.	1.4	101
50	Search for Heavy Higgs Bosons Decaying into Two Tau Leptons with the ATLAS Detector Using $p\bar{p}$ Collisions at $\sqrt{s}=13$ TeV. Physical Review Letters, 2020, 125, 051801.	2.9	97
51	Performance of electron and photon triggers in ATLAS during LHC Run 2. European Physical Journal C, 2020, 80, 1.	1.4	93
52	Search for the $b\bar{b}\tilde{A}^0$ decay of the Standard Model Higgs boson in associated (W/Z)H production with the ATLAS detector. Journal of High Energy Physics, 2015, 2015, 1.	1.6	89
53	Measurement of $W\tilde{A}^0$ and Z-boson production cross sections in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 759, 601–621.	1.6	88
54	Electron efficiency measurements with the ATLAS detector using 2012 LHC proton–proton collision data. European Physical Journal C, 2017, 77, 195.	1.4	87

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55	Measurement of multi-particle azimuthal correlations in pp, p+Pb and low-multiplicity Pb+Pb collisions with the ATLAS detector. European Physical Journal C, 2017, 77, 428.	1.4	86
56	Muon reconstruction and identification efficiency in ATLAS using the full Run 2 pp collision data set at $\sqrt{s}=13$ TeV. European Physical Journal C, 2021, 81, 1.	1.4	82
57	Measurement of the prompt $J/\psi$ 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
58	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
59	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
60	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. European Physical Journal C, 2018, 78, 565.	1.4	79
61	Electron reconstruction and identification in the ATLAS experiment using the 2015 and 2016 LHC proton-proton collision data at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2019, 79, 1.	1.4	77
62	Angular analysis of $B_0 \rightarrow \mu^+ \mu^- K_S^0$ decays in pp collisions at $\sqrt{s}=8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1.	1.6	76
63	Performance of the ATLAS track reconstruction algorithms in dense environments in LHC Run 2. European Physical Journal C, 2017, 77, 673.	1.4	75
64	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
65	Observation of Light-by-Light Scattering in Ultraperipheral Collisions with the ATLAS Detector. Physical Review Letters, 2019, 123, 052001.	2.9	75
66	Search for Heavy Higgs Bosons A/H Decaying to a Top Quark Pair in pp Collisions at $\sqrt{s}=8$ TeV with the ATLAS Detector. Physical Review Letters, 2017, 119, 191803.	2.9	74
67	Measurement of the inclusive and dijet cross-sections of b-jets in pp collisions at $\sqrt{s}=7$ TeV with the ATLAS detector. European Physical Journal C, 2011, 71, 1.	1.4	73
68	Measurement of the photon identification efficiencies with the ATLAS detector using LHC Run-1 data. European Physical Journal C, 2016, 76, 666.	1.4	73
69	Search for squarks and gluinos in final states with jets and missing transverse momentum at $\sqrt{s}=13$ TeV with the ATLAS detector. European Physical Journal C, 2016, 76, 392.	1.4	73
70	Search for production of vector-like quark pairs and of four top quarks in the lepton-plus-jets final state in pp collisions at $\sqrt{s}=8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2015, 2015, 1.	1.6	71
71	Reconstruction of primary vertices at the ATLAS experiment in Run 1 proton-proton collisions at the LHC. European Physical Journal C, 2017, 77, 332.	1.4	71
72	Identification and energy calibration of hadronically decaying tau leptons with the ATLAS experiment in pp collisions at $\sqrt{s}=8$ TeV. European Physical Journal C, 2015, 75, 303.	1.4	70

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73	Search for resonances in diphoton events at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2016, 2016, 1.	1.6	70
74	Search for Resonant and Nonresonant Higgs Boson Pair Production in the $b\bar{b}$ Decay Channel in $\sqrt{s} = 13$ TeV pp collisions with the ATLAS detector. Physical Review Letters, 2018, 121, 191801.	2.9	70
75	ATLAS data quality operations and performance for 2015–2018 data-taking. Journal of Instrumentation, 2020, 15, P04003-P04003.	0.5	68
76	Search for new resonances in mass distributions of jet pairs using $139 \text{ fb}^{-1}$ of pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2020, 2020, 1.	1.6	68
77	Search for long-lived charginos based on a disappearing-track signature in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1.	1.6	67
78	Dijet Resonance Search with Weak Supervision Using $\sqrt{s} = 13$ TeV pp collisions with the ATLAS detector. Physical Review Letters, 2020, 125, 131801.	2.9	67
79	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
80	Evidence for the $H \rightarrow b\bar{b}$ decay with the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1.	1.6	64
81	Search for new phenomena in events with an energetic jet and missing transverse momentum in $\sqrt{s} = 13$ TeV pp collisions at the ATLAS detector. Physical Review D, 2021, 103, 072001.	1.6	64
82	Jet energy scale and resolution measured in proton–proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. European Physical Journal C, 2021, 81, 1.	1.4	64
83	Measurement of the Higgs boson mass in the $H \rightarrow \tau\tau$ channels with $\sqrt{s} = 13$ TeV pp collisions using the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 800, 258–271.	1.6	63
84	Cross-section measurements of the Higgs boson decaying into a pair of $\tau$ leptons in proton–proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Physical Review D, 2019, 99, 072001.	1.6	63
85	Performance of the ATLAS muon triggers in Run 2. Journal of Instrumentation, 2020, 15, P09015-P09015.	0.5	62
86	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
87	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
88	Prompt and non-prompt $J/\psi$ and $\psi(2S)$ suppression at high transverse momentum in $5.02 \text{ TeV Pb+Pb}$ collisions with the ATLAS experiment. European Physical Journal C, 2018, 78, 762.	1.4	61
89	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
90	A search for the dimuon decay of the Standard Model Higgs boson with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2021, 812, 135980.	1.5	61

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91	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
92	Measurement of longitudinal flow decorrelations in Pb+Pb collisions at $\sqrt{s_{NN}}=2.76$ and 5.0. European Physical Journal C, 2018, 78, 142.	1.4	59
93	Search for charged Higgs bosons decaying via $H^{\pm} \rightarrow \bar{\nu}_\mu \nu_\mu$ , in the $\bar{\nu}_\mu$ +jets and $\bar{\nu}_\mu$ +lepton final states with 36 fb $^{-1}$ of pp collision data recorded at $\sqrt{s}=13$ TeV with the ATLAS experiment. Journal of High Energy Physics, 2018, 2018, 1.	1.6	59
94	Fiducial, total and differential cross-section measurements of t-channel single top-quark production in pp collisions at 8 TeV using data collected by the ATLAS detector. European Physical Journal C, 2017, 77, 531.	1.4	56
95	Search for charged Higgs bosons decaying into top and bottom quarks at $\sqrt{s}=13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1.	1.6	56
96	Search for direct top squark pair production in events with a Z boson, b-jets and missing transverse momentum in $\sqrt{s}=8$ TeV pp collisions with the ATLAS detector. European Physical Journal C, 2014, 74, 2883.	1.4	55
97	Search for pair production of Higgs bosons in the $b\bar{b}$ final state using proton-proton collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2019, 2019, 1.	1.6	55
98	Search for Higgs boson pair production in the $\gamma\gamma WW$ 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
99	Search for the Decay of the Higgs Boson to Charm Quarks with the ATLAS Experiment. Physical Review Letters, 2018, 120, 211802.	2.9	53
100	Observation of Electroweak Production of a Same-Sign $W^+W^+$ Boson Pair in Association with Two Jets in $\sqrt{s}=13$ TeV pp Collisions at the ATLAS Experiment. European Physical Journal C, 2018, 78, 154.	2.9	53
101	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
102	Measurement of the top quark mass in the $t\bar{t}$ channel from $\tau$ leptons in $\sqrt{s}=13$ TeV pp collisions with the ATLAS detector. European Physical Journal C, 2018, 78, 154.	1.5	52
103	Search for the direct production of charged 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
104	Search for vectorlike quarks in events with one isolated lepton, missing transverse momentum, and jets at $\sqrt{s}=13$ TeV with the ATLAS detector. European Physical Journal C, 2016, 76, 585.	1.6	51
105	Search for minimal supersymmetric standard model Higgs Bosons $H^{\pm}/A$ and for a $Z^{\prime}$ boson in the $\tau\nu$ 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
106	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
107	Evidence for the associated production of the Higgs boson and a top quark pair with the ATLAS detector. Physical Review D, 2018, 97, .	1.6	51
108	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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109	Reconstruction of hadronic decay products of tau leptons with the ATLAS experiment. European Physical Journal C, 2016, 76, 295.	1.4	50
110	Search for direct top squark pair production in final states with two leptons in $\sqrt{s} = 13$ TeV pp collisions with the ATLAS detector. European Physical Journal C, 2017, 77, 898.	1.4	50
111	Search for a new heavy gauge-boson resonance decaying into a lepton and missing transverse momentum in $\sqrt{s} = 13$ TeV pp collisions at the ATLAS detector. European Physical Journal C, 2018, 78, 401.	2.9	50
112	Search for a new heavy gauge-boson resonance decaying into a lepton and missing transverse momentum in $\sqrt{s} = 13$ TeV pp collisions at the ATLAS detector. European Physical Journal C, 2018, 78, 401.	1.4	50
113	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. Journal of High Energy Physics, 2019, 2019, 1.	1.6	50
114	Search for Dark Matter Produced in Association with a Higgs Boson Decaying to $b\bar{b}$ Using $\sqrt{s} = 13$ TeV pp Collision Data Collected by the ATLAS Detector. Physical Review Letters, 2017, 119, 181804.	2.9	49
115	Constraints on mediator-based dark matter and scalar dark energy models using $\sqrt{s} = 13$ TeV pp collision data collected by the ATLAS detector. Journal of High Energy Physics, 2019, 2019, 1.	1.6	49
116	Test of CP invariance in vector-boson fusion production of the Higgs boson using the Optimal Observable method in the ditau decay channel with the ATLAS detector. European Physical Journal C, 2016, 76, 658.	1.4	48
117	Search for top-squark pair production in final states with one lepton, jets, and missing transverse momentum using $\sqrt{s} = 13$ TeV pp collision data with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1.	1.6	48
118	Measurements of the production cross section of a $Z$ boson in association with jets in pp collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2017, 77, 361.	1.4	47
119	Measurement of the top quark mass in the $t\bar{t} \rightarrow t\bar{t} \tau^+ \tau^-$ . European Physical Journal C, 2019, 79, 1.	1.4	47
120	Study of the rare decays of $B^0 \rightarrow B^0 \mu^+ \mu^-$ and $B^0 \rightarrow B^0 \mu^+ \mu^-$ into muon pairs from data collected during the LHC Run 1 with the ATLAS detector. European Physical Journal C, 2016, 76, 513.	1.4	46
121	Measurement of the Higgs boson coupling properties in the $H \rightarrow ZZ \rightarrow 4\tau$ decay channel at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1.	1.6	46
122	Measurement of the photon identification efficiencies with the ATLAS detector using LHC Run 2 data collected in 2015 and 2016. European Physical Journal C, 2019, 79, 1.	1.4	46
123	Measurements of gluon-gluon fusion and vector-boson fusion Higgs boson production cross-sections in the $H \rightarrow \tau^+ \tau^-$ decay channel in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 789, 508-529.	1.5	46
124	Search for charged Higgs bosons decaying into a top quark and a bottom quark at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.	1.6	46
125	Measurement of the top quark pair production cross section in pp collisions at $\sqrt{s} = 13$ TeV in dilepton final states with ATLAS. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 707, 459-477.	1.5	46
126	Single hadron response measurement and calorimeter jet energy scale uncertainty with the ATLAS detector at the LHC. European Physical Journal C, 2013, 73, 1.	1.4	45



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127	Search for supersymmetry at $\sqrt{s} = 8$ TeV in final states with jets and two same-sign leptons or three leptons with the ATLAS detector. Journal of High Energy Physics, 2014, 2014, 1.	1.6	45
128	Search for a scalar partner of the top quark in the jets plus missing transverse momentum final state at $s = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1.	1.6	45
129	Measurement of the inclusive isolated prompt photon cross section in pp collisions at $s = 8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2016, 2016, 1.	1.6	44
130	Search for single production of vector-like quarks decaying into $Wb$ in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. European Physical Journal C, 2016, 76, 442.	1.4	43
131	Constraints on off-shell Higgs boson production and the Higgs boson total width in $Z\bar{\nu}\nu$ and $Z\bar{\nu}\nu$ final states with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 786, 223-244.	1.5	43
132	Combined measurement of differential and total cross sections in the $H \rightarrow \tau\tau$ and the $H \rightarrow Z\bar{\nu}\nu$ decay channels at $\sqrt{s} = 13$ TeV with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 786, 114-133.	1.5	42
133	Performance of top-quark and $W$ -boson tagging with ATLAS in Run 2 of the LHC. European Physical Journal C, 2019, 79, 1.	1.4	42
134	Measurement of the $t\bar{t}Z$ and $t\bar{t}W$ production cross sections in multilepton final states using 3.2 fb of $pp$ collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. European Physical Journal C, 2017, 77, 40.	1.4	41
135	Scattering in $PbPb$ collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Search for low-mass Dijet Resonances Using Trigger-Level Jets with the ATLAS Detector in $pp$ collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. European Physical Journal C, 2017, 77, 40.	2.9	41
136	Search for low-mass Dijet Resonances Using Trigger-Level Jets with the ATLAS Detector in $pp$ collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. European Physical Journal C, 2017, 77, 40.	2.9	41
137	Measurement of $W$ production cross sections and gauge boson polarisation in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. European Physical Journal C, 2019, 79, 1.	1.4	41
138	Higgs boson production cross-section measurements and their EFT interpretation in the $4\ell$ decay channel at $\sqrt{s} = 13$ TeV with the ATLAS detector. European Physical Journal C, 2020, 80, 1.	1.4	41
139	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. Journal of High Energy Physics, 2018, 2018, 1.	1.6	40
140	Measurements of b-jet tagging efficiency with the ATLAS detector using $t\bar{t}$ events at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	1.6	40
141	Properties of Higgs Boson Interactions with Top Quarks in the $t\bar{t}H$ and $t\bar{t}H$ final states using 139 fb $^{-1}$ of proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. European Physical Journal C, 2021, 81, 1.	2.9	40
142	Search for heavy resonances decaying into a pair of $Z$ bosons in the $e^+e^- \rightarrow e^+e^- Z\bar{Z}$ and $e^+e^- \rightarrow e^+e^- \nu\bar{\nu} Z\bar{Z}$ final states using 139 fb $^{-1}$ of proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. European Physical Journal C, 2021, 81, 1.	1.4	40
143	Search for invisible decays of the Higgs boson produced in association with a hadronically decaying vector boson in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. European Physical Journal C, 2015, 75, 337.	1.4	39
144	Measurement of the charge asymmetry in top-quark pair production in the lepton-plus-jets final state in pp collision data at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2016, 76, 87.	1.4	39

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145	Combination of searches for heavy resonances decaying into bosonic and leptonic final states using $\sqrt{s} = 36$ TeV proton-proton collision data at $\sqrt{s} = 13$ TeV with the ATLAS detector. Physical Review D, 2019, 99.	1.6	39
146	Search for a Structure in the Invariant Mass Spectrum with the ATLAS Experiment. Physical Review Letters, 2018, 120, 202007.	1.6	39
147	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. Journal of High Energy Physics, 2019, 2019, 1.	1.6	39
148	Measurement of the double-differential high-mass Drell-Yan cross section in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2016, 2016, 1.	1.6	38
149	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. Journal of High Energy Physics, 2017, 2017, 1.	1.6	38
150	Search for Higgs boson pair production in the $\gamma\gamma$ final state with 13 TeV pp collision data collected by the ATLAS experiment. Journal of High Energy Physics, 2018, 2018, 1.	1.6	38
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162	Search for a scalar partner of the top quark in the all-hadronic $t\bar{t}$ plus missing transverse momentum final state at $\sqrt{s} = 13$ TeV with the ATLAS detector. European Physical Journal C, 2020, 80, 1.	1.4	36

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