

Marco Vanadia

List of Publications by Year in descending order

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Version: 2024-02-01

713
papers

44,619
citations

2797

94
h-index

4641

170
g-index

738
all docs

738
docs citations

738
times ranked

12629
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	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
3	Performance of the ATLAS trigger system in 2015. European Physical Journal C, 2017, 77, 317.	1.4	489
4	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
5	Observation of Associated Near-Side and Away-Side Long-Range Correlations in pp Collisions with the ATLAS Detector. Physical Review Letters, 2013, 110, 192302.	2.1	365
6	Measurement of the azimuthal anisotropy for charged particle production in lead-lead collisions with the ATLAS detector. Physical Review C, 2012, 86, .	1.1	365
7	Improved luminosity determination in pp collisions at $\sqrt{s} = 7$ TeV using the ATLAS detector at the LHC. European Physical Journal C, 2013, 73, 2518.	1.4	362
8	Combined search for the Standard Model Higgs boson using up to 4.9 fb^{-1} of pp collision data at $\sqrt{s} = 7$ and 8 TeV with the ATLAS detector at the LHC. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 710, 49-66.	1.5	307
9	Topological cell clustering in the ATLAS calorimeters and its performance in LHC Run 1. European Physical Journal C, 2017, 77, 490.	1.4	325
10	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
11	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
12	Measurements of Higgs boson production and couplings in diboson final states with the ATLAS detector at the LHC. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 726, 88-119.	1.5	295
13	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
14	Performance of b -jet identification in the ATLAS experiment. Journal of Instrumentation, 2016, 11, P04008-P04008.	0.5	278
15	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
16	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
17	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
18	Search for high-mass dilepton resonances in pp collisions at $\sqrt{s} = 7$ and 8 TeV with the ATLAS detector. Physical Review D, 2014, 90, .	1.6	237

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#	ARTICLE	IF	CITATIONS
37	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. Journal of High Energy Physics, 2013, 2013, 1.	1.6	168
38	Measurement of the inclusive WZ and $WZ\gamma$ cross sections in the pp collisions at center-of-mass energies of 7 and 8 TeV with the ATLAS detector. Physical Review D, 2015, 91, 072002.	1.6	158
39	Measurements of Higgs boson production and couplings in the four-lepton channel in pp collisions at center-of-mass energies of 7 and 8 TeV with the ATLAS detector. Physical Review D, 2015, 91, 072002.	1.6	158
40	Measurement of the total cross section from elastic scattering in pp collisions at $\sqrt{s}=7$ and 8 TeV with the ATLAS detector. Nuclear Physics B, 2014, 889, 486-548.	0.9	155
41	Measurement of the transverse momentum and $\phi_{T, \hat{n}}$ distributions of Drell-Yan lepton pairs in proton-proton collisions at $\sqrt{s}=8$ TeV with the ATLAS detector. European Physical Journal C, 2016, 76, 291.	1.4	154
42	Measurement of hard double-parton interactions in pp collisions at $\sqrt{s}=7$ TeV with the ATLAS detector. New Journal of Physics, 2013, 15, 033038.	1.2	147
43	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. Journal of High Energy Physics, 2014, 2014, 1.	1.6	145
44	Jet reconstruction and performance using particle flow with the ATLAS Detector. European Physical Journal C, 2017, 77, 466.	1.4	145
45	Precision measurement and interpretation of inclusive W^+W^- production. European Physical Journal C, 2017, 77, 367.	1.4	145
46	Measurement of the $t\bar{t}$ production cross-section using b -tagged jets in pp collisions at $\sqrt{s}=7$ and 8 TeV with the ATLAS detector. European Physical Journal C, 2014, 74, 3109.	1.4	143
47	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
48	Search for dark matter candidates and large extra dimensions in events with a jet and missing transverse momentum with the ATLAS detector. Journal of High Energy Physics, 2013, 2013, 1.	1.6	137
49	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
50	Measurement of inclusive jet and dijet production in pp collisions at $\sqrt{s}=7$ TeV using the ATLAS detector. Physical Review D, 2012, 86, 072002.	1.6	135
51	Measurement of the Nuclear Modification Factor for jets in $PbPb$ collisions at $\sqrt{s_{NN}}=2.76$ TeV with the ATLAS detector. Physical Review C, 2014, 90, 044907.	2.9	135
52	Measurement of event-plane correlations in pp collisions at $\sqrt{s}=7$ TeV with the ATLAS detector. Physical Review C, 2014, 90, 044907.	1.4	134
53	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
54	Measurement of the Z/γ^* 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

#	ARTICLE	IF	CITATIONS
55	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
56	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
57	Search for Dark Matter in Events with a Hadronically Decaying W Boson and Missing Transverse Momentum in pp Collisions at $\sqrt{s}=8$ TeV with the ATLAS Detector. Physical Review Letters, 2014, 112, 041802.	2.9	129
58	Search for squarks and gluinos with the ATLAS detector in final states with jets and missing transverse momentum using $\sqrt{s}=8$ TeV proton-proton collision data. Journal of High Energy Physics, 2014, 2014, 1.	1.6	128
59	Search for charged Higgs bosons decaying via $H \rightarrow \tau^+\tau^-$ in $t\bar{t}$ events using pp collision data at $\sqrt{s}=7$ TeV with the ATLAS detector. Journal of High Energy Physics, 2012, 2012, 1.	1.6	126
60	Search for pair-produced third-generation squarks decaying via charm quarks or in compressed supersymmetric scenarios in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. Physical Review D, 2014, 90.	1.6	126
61	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
62	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
63	Search for the Standard Model Higgs boson produced in association with top quarks and decaying into $b\bar{b}$ in pp collisions at $\sqrt{s}=8$ TeV with the ATLAS detector. European Physical Journal C, 2015, 75, 349.	2.9	123
64		1.4	123
65			

#	ARTICLE	IF	CITATIONS
73	Search for new phenomena in dijet mass and angular distributions from pp collisions at $\sqrt{s} \leq 13$ TeV Measurement of the t-channel single top-quark production cross section in pp collisions at Energy Ph	1.5	113
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75			

#	ARTICLE	IF	CITATIONS
91	Search for high-mass diphoton resonances in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. Physical Review D, 2015, 92, .	1.6	99
92	Search for Higgs Boson Pair Production in the $b\bar{b}\gamma$ Final State Using pp Collision Data at $\sqrt{s} = 8$ TeV from the ATLAS Detector. Physical Review Letters, 2015, 114, 081802.	2.9	98
93	Search for a CP-odd Higgs boson decaying to $Z\eta$ in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 744, 163-163.	1.5	93
94	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
95	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
96	Search for the Standard Model Higgs boson in the decay channel $H \rightarrow Z\gamma$ with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 748, 392-413.	1.5	93
97	Controlled and rapidity dependence of inclusive jet production in pp collisions with $\sqrt{s} = 8$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 748, 392-413.	1.5	93
98	Performance of electron and photon triggers in ATLAS during LHC Run 2. European Physical Journal C, 2020, 80, 1.	1.4	93
99	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
100	Search for massive, long-lived particles using multitrack displaced vertices or displaced lepton pairs in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. Physical Review D, 2015, 92, .	1.6	91
101	Search for dark matter in events with a Z boson and missing transverse momentum in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. European Physical Journal C, 2015, 75, 412.	2.9	90
102	Search for the $b\bar{b}\gamma$ 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	90
103	Jet mass and substructure of inclusive jets in $\sqrt{s} = 7$ TeV pp collisions with the ATLAS experiment. Journal of High Energy Physics, 2012, 2012, 1.	1.6	88
104	Search for direct production of charginos and neutralinos in events with three leptons and missing transverse momentum in $\sqrt{s} = 8$ TeV pp collisions with the ATLAS detector. Journal of High Energy Physics, 2014, 2014, 1.	1.6	88
105	Electron efficiency measurements with the ATLAS detector using 2012 LHC proton-proton collision data. European Physical Journal C, 2017, 77, 195.	1.4	87
106	Measurement of multi-particle azimuthal correlations in pp, $p\bar{p}$ and low-multiplicity $Pb\text{-}Pb$ collisions with the ATLAS detector. European Physical Journal C, 2017, 77, 428.	1.4	86

#	ARTICLE	IF	CITATIONS
109	Measurement of the correlation between flow harmonics of different order in lead-lead collisions at $\sqrt{s} = 2.76$ TeV with the ATLAS detector. <i>Physical Review C</i> , 2015, 92, 044907.	1.4	84
110	Search for heavy Majorana neutrinos with the ATLAS detector in pp collisions at $\sqrt{s} = 8$ TeV. <i>Journal of High Energy Physics</i> , 2015, 2015, 1.	1.6	84
111	Search for neutral Higgs bosons of the minimal supersymmetric standard model in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2014, 2014, 1.	1.6	82
112	Observation of an Excited B_c State with the ATLAS Detector. <i>Physical Review Letters</i> , 2014, 113, 212004.	1.9	82
113	Muon reconstruction and identification efficiency in ATLAS using the full Run 2 pp collision data set at $\sqrt{s} = 13$ TeV. <i>European Physical Journal C</i> , 2021, 81, 1.	1.4	82
114	ATLAS search for new phenomena in dijet mass and angular distributions using pp collisions at $\sqrt{s} = 7$ TeV. <i>Journal of High Energy Physics</i> , 2013, 2013, 1.	1.6	81
115	Measurement of the prompt J/ψ pair production cross-section in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2017, 77, 76.	1.4	81
116	Observation of Spin Correlation in $t\bar{t}$ Events from $\sqrt{s} = 13$ TeV pp Collisions at ATLAS. <i>Physical Review Letters</i> , 2017, 118, 251801.	2.9	80
117	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. <i>European Physical Journal C</i> , 2017, 77, 393.	1.4	80
118	Search for production of W or Z resonances decaying to a lepton, neutrino and jets in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2015, 75, 209.	1.4	79
119	Search for lepton-flavour-violating decays of the Higgs and Z bosons with the ATLAS detector. <i>European Physical Journal C</i> , 2017, 77, 70.	1.4	79
120	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.	1.4	79
121	Measurement of χ_{c0} production in pp collisions at ATLAS. <i>Physical Review D</i> , 2013, 87, 012004.	1.6	78
122	Search for high-mass diboson resonances with boson-tagged jets in proton-proton collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2015, 2015, 1-39.	1.6	78
123	Evidence for the associated production of a W boson and a top quark in ATLAS at $\sqrt{s} = 7$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2012, 716, 142-150.	1.4	77
124	Light-quark and gluon jet discrimination in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2014, 74, 3023.	1.4	77
125	Search for dark matter in events with heavy quarks and missing transverse momentum in pp collisions with the ATLAS detector. <i>European Physical Journal C</i> , 2015, 75, 92.	1.4	77
126	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.	1.4	77

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127	Measurement of $\sigma(\text{pp} \rightarrow \text{W}^+ \text{W}^- \text{Z})$ production in $\sqrt{s} = 8$ TeV collisions at the ATLAS detector. <i>Journal of High Energy Physics</i> , 2018, 2018, 1.	1.6	76
128	Angular analysis of $\text{B}_0 \rightarrow \text{K}^* \ell^+ \ell^-$ decays in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2018, 2018, 1.	1.6	76
129	Search for Direct Top Squark Pair Production in Final States with One Isolated Lepton, Jets, and Missing Transverse Momentum in $\sqrt{s} = 7$ TeV pp Collisions Using 4.7 fb ⁻¹ of ATLAS Data. <i>Physical Review Letters</i> , 2012, 109, 211803.		75
130	Performance of the ATLAS track reconstruction algorithms in dense environments in LHC Run 2. <i>European Physical Journal C</i> , 2017, 77, 673.	1.4	75
131	Measurement of quarkonium production in proton-lead and proton-proton collisions at $\sqrt{s} = 5.02$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2018, 78, 171.	1.4	75
132	A Particle Consistent with the Higgs Boson Observed with the ATLAS Detector at the Large Hadron Collider. <i>Science</i> , 2012, 338, 1576-1582.	6.0	74
133	Search for resonant diboson production in the $\text{pp} \rightarrow \text{q} \bar{\text{q}} \text{Z} \text{Z}$ final state in $\sqrt{s} = 8$ TeV collisions at the ATLAS detector. <i>European Physical Journal C</i> , 2015, 75, 69.	1.4	74
134	Measurement of the production cross section of jets in association with a Z boson in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2013, 2013, 1.	1.6	73
135	Measurement of the photon identification efficiencies with the ATLAS detector using LHC Run-1 data. <i>European Physical Journal C</i> , 2016, 76, 666.	1.4	73
136	Search for squarks and gluinos in final states with jets and missing transverse momentum at $\sqrt{s} = 13$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2016, 76, 392.	1.4	73
137	Search for Higgs boson decays to a photon and a Z boson in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2014, 732, 8-27.		73
138	Search for supersymmetry at $\sqrt{s} = 13$ TeV in final states with jets and two same-sign leptons or three leptons with the ATLAS detector. <i>European Physical Journal C</i> , 2016, 76, 259.	1.4	72
139	Search for new phenomena in final states with large jet multiplicities and missing transverse momentum at $\sqrt{s} = 8$ TeV proton-proton collisions using the ATLAS experiment. <i>Journal of High Energy Physics</i> , 2016, 2016, 1.	1.6	71
140	Measurements of normalized differential cross sections for $\text{pp} \rightarrow \text{W}^+ \text{W}^- \text{Z}$ production in $\sqrt{s} = 8$ TeV collisions with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2015, 2015, 1.	1.6	71
141	Search for production of vector-like quark pairs and of four top quarks in the lepton-plus-jets final state in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2015, 2015, 1.	1.6	71
142	Search for new phenomena in events with a photon and missing transverse momentum in $\sqrt{s} = 8$ TeV collisions with the ATLAS detector. <i>Physical Review D</i> , 2015, 91, .	1.6	71
143	Search for a high-mass Higgs boson decaying to a W boson pair in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2016, 2016, 1.	1.6	71
144	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.	1.4	71

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145	Measurement of the high-mass Drellian– Yan differential cross-section in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 725, 223–242.		
146	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
147	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
148	Measurement of the top quark pair production cross-section with ATLAS in the single lepton channel. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 711, 244–263.	1.5	69
149	Search for charged Higgs bosons decaying via $H \rightarrow \tau^+ \bar{\nu}_\tau, \tau^\pm \bar{\nu}_\tau$ in fully hadronic final states using pp collision data at $\sqrt{s} = 8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2015, 2015, 1.	1.6	69
150	Comprehensive measurements of t-channel single top-quark production cross sections at $\sqrt{s} = 8$ TeV with the ATLAS detector. Physical Review D, 2014, 90, .	1.6	68
151	Measurement of flow harmonics with multi-particle cumulants in Pb+Pb collisions at $\sqrt{s_{NN}} = 2.76$ TeV with the ATLAS detector. European Physical Journal C, 2014, 74, 3157.	1.4	68
152	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. Journal of High Energy Physics, 2020, 2020, 1.	1.6	68
153	Searches for heavy long-lived sleptons and R-hadrons with the ATLAS detector in pp collisions at $\sqrt{s} = 8$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 720, 277–308.	1.5	67
154	Measurement of charged-particle spectra in Pb+Pb collisions at $\sqrt{s_{NN}} = 2.76$ TeV with the ATLAS detector at the LHC. Journal of High Energy Physics, 2015, 2015, 1.	1.6	67
155	Search for direct pair production of a chargino and a neutralino decaying to the 125 GeV Higgs boson in $\sqrt{s} = 8$ TeV pp collisions with the ATLAS detector. European Physical Journal C, 2015, 75, 208.	1.4	67
156	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
157	Search for top squark pair production in final states with one isolated lepton, jets, and missing transverse momentum in $\sqrt{s} = 8$ TeV pp collisions with the ATLAS detector. Journal of High Energy Physics, 2014, 2014, 1.	1.6	66
158	A search for $t\bar{t}$ 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
159	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
160	Search for new phenomena in final states with large jet multiplicities and missing transverse momentum using $\sqrt{s} = 7$ TeV pp collisions with the ATLAS detector. Journal of High Energy Physics, 2011, 2011, 1.	1.6	65
161	Measurement of isolated-photon pair production in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector. Journal of High Energy Physics, 2013, 2013, 1.	1.6	64
162	Measurement of Spin Correlation in Top-Antitop Quark Events and Search for Top Squark Pair Production in $\sqrt{s} = 8$ TeV pp collisions with the ATLAS detector. Physical Review Letters, 2015, 114, 142001.	2.9	64

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163	Observation and measurements of the production of prompt and non-prompt $\psi(2S)$ mesons in association with a Z boson in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. European Physical Journal C, 2015, 75, 229.	1.4	64
164	Evidence for the $H \rightarrow b\bar{b}$ decay with the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1.	1.6	64
165	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
166	Search for a Supersymmetric Partner to the Top Quark in Final States with Jets and Missing Transverse Momentum at $\sqrt{s} = 7$ TeV with the ATLAS Detector. Physical Review Letters, 2012, 109, 211802.	2.9	63
167	Measurement of Z Boson Production in Pb-Pb Collisions at $\sqrt{s_{NN}} = 2.76$ TeV with the ATLAS Detector. Physical Review Letters, 2013, 110, 022301.	2.9	63
168	Measurement of the differential cross-sections of prompt and non-prompt production of $\psi(2S)$ and $\psi(1S)$ in pp collisions at $\sqrt{s} = 7$ and 8 TeV with the ATLAS detector. European Physical Journal C, 2016, 76, 283.	1.4	63
169	Performance of the ATLAS muon trigger in pp collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2015, 75, 120.	1.4	62
170	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
171	Search for Scalar Bottom Quark Pair Production with the ATLAS Detector in pp Collisions at $\sqrt{s} = 7$ TeV. Physical Review Letters, 2012, 108, 181802.	2.9	61
172	Search for a Light Higgs Boson Decaying to Long-Lived Weakly Interacting Particles in Proton-Proton Collisions at $\sqrt{s} = 7$ TeV with the ATLAS Detector. Physical Review Letters, 2012, 108, 251801.	2.9	61
173	Measurement of ZZ production in pp collisions at $\sqrt{s} = 7$ TeV and limits on anomalous ZZZ and $ZZ\gamma$ couplings with the ATLAS detector. Journal of High Energy Physics, 2013, 2013, 1.	1.6	61
174	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
175	Search for long-lived, weakly interacting particles that decay to displaced hadronic jets in proton-proton collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector. Physical Review Letters, 2012, 108, 181802.	1.6	61
176	Search for a Charged Higgs Boson Produced in the Vector-Boson Fusion Mode with Decay to $W\tau$ in pp Collisions at $\sqrt{s} = 7$ TeV with the ATLAS Detector. Physical Review Letters, 2012, 108, 181802.	2.9	61
177	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
178	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
179	Prompt and non-prompt $\psi(2S)$ and $\psi(1S)$ suppression at high transverse momentum in $\sqrt{s} = 5.02$ TeV Pb+Pb collisions with the ATLAS experiment. European Physical Journal C, 2018, 78, 762.	1.4	61
180	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

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181	Search for anomalous production of prompt same-sign lepton pairs and pair-produced doubly charged Higgs bosons with $\sqrt{s} = 8$ TeV pp collisions using the ATLAS detector. Journal of High Energy Physics, 2015, 2015, 1.	1.6	60
182	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
183	Search for a new resonance decaying to a W or Z boson and a Higgs boson in the $\sqrt{s} = 8$ TeV pp collisions using the ATLAS detector. European Physical Journal C, 2015, 75, 263.	1.4	60
184	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
186	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
187	Search for the decay $B \rightarrow B^0 s$ with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 713, 387-407.	1.5	59
188	Measurement of $W \rightarrow Z$ production in proton-proton collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector. European Physical Journal C, 2012, 72, 1.	1.4	59
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612	Search for a standard model Higgs boson in the $\gamma\gamma$ channel in $\sqrt{s}=7$ TeV pp collisions with the ATLAS detector. $\langle \text{mml:math altimg="si1.gif" overflow="scroll" xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:sb="http://www.elsevier.com/xml/common/struct-bib/dtd" xmlns:ce="http://ww.elsevier.com/xml/common/struct-bib/dtd" \rangle$ Physics Letters, 2012, 714, 180-196.	1.5	12

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613	Measurement of charged-particle event shape variables in inclusive(s)=7â€‰%â€‰TeVproton-proton interactions with the ATLAS detector. Physical Review D, 2013, 88, .	1.6	12
614	Search for supersymmetry in events with large missing transverse momentum, jets, and at least one tau lepton in 20 fbâˆ’1 of s \sqrt{s} = 8 TeV proton-proton collision data with the ATLAS detector. Journal of High Energy Physics, 2014, 2014, 1.	1.6	12
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639	Search for contact interactions in dilepton events from pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 712, 40-50.	1.5	10
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642	Search for direct top squark pair production in final states with two tau leptons in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. European Physical Journal C, 2016, 76, 81.	1.4	10
643	Measurement of the dependence of transverse energy production at large pseudorapidity on the hard-scattering kinematics of proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 756, .	1.5	10
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655	Measurement of the ZZ production cross section in proton-proton collisions at $s = 8$ TeV using the ZZ $\rightarrow \text{b}\bar{\text{b}}\gamma\gamma$ and ZZ $\rightarrow \text{b}\bar{\text{b}}\gamma\gamma$ decay channels with the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1.	1.6	9
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676	Configuration and performance of the ATLAS b-jet triggers in Run 2. European Physical Journal C, 2021, 81, 1.	1.4	7
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