

Sebastian Grinstein

List of Publications by Year in descending order

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Version: 2024-02-01

874
papers

40,212
citations

2963

93
h-index

8835

145
g-index

890
all docs

890
docs citations

890
times ranked

11082
citing authors

#	ARTICLE	IF	CITATIONS
1	The ATLAS Simulation Infrastructure. European Physical Journal C, 2010, 70, 823-874.	1.4	1,187
2	Observation and Properties of the $X(3872)$ Decaying to $J/\psi + \psi(2S)$ in pp Collisions at $\sqrt{s} = 1.96$ TeV. Physical Review Letters, 2004, 93, 162002.	2.9	494
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	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
6	Topological cell clustering in the ATLAS calorimeters and its performance in LHC Run 1. European Physical Journal C, 2017, 77, 490.	1.4	325
7	Observation of $B_s \rightarrow B^0$ Oscillations. Physical Review Letters, 2006, 97, 242003.	2.9	311
8	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
9	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
10	Evidence for a Narrow Near-Threshold Structure in the J/ψ Mass Spectrum in pp Collisions at $\sqrt{s} = 7$ TeV. Physical Review Letters, 2009, 102, 242002.	2.9	275
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	Production and integration of the ATLAS Insertable B-Layer. Journal of Instrumentation, 2018, 13, T05008-T05008.	0.5	260
14	Performance of the ATLAS Trigger System in 2010. European Physical Journal C, 2012, 72, 1.	1.4	259
15	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
16	Evidence for a mass dependent forward-backward asymmetry in top quark pair production. Physical Review D, 2011, 83, .	1.6	238
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
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#	ARTICLE	IF	CITATIONS
19	A precision measurement of the mass of the top quark. <i>Nature</i> , 2004, 429, 638-642.	13.7	232
20	Performance of missing transverse momentum reconstruction in proton-proton collisions at $\sqrt{s} = 7$ TeV with ATLAS. <i>European Physical Journal C</i> , 2012, 72, 1.	1.4	230
21	Measurement of the W-boson mass in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2018, 78, 110.	1.4	218
22	Measurement of the muon reconstruction performance of the ATLAS detector using 2011 and 2012 LHC proton-proton collision data. <i>European Physical Journal C</i> , 2014, 74, 3130.	1.4	213
23	Jet energy resolution in proton-proton collisions at $\sqrt{s} = 7$ TeV recorded in 2010 with the ATLAS detector. <i>European Physical Journal C</i> , 2013, 73, 2306.	1.4	209
24	Electron reconstruction and identification efficiency measurements with the ATLAS detector using the 2011 LHC proton-proton collision data. <i>European Physical Journal C</i> , 2014, 74, 2941.	1.4	204
25	Observation of Electroweak Single Top-Quark Production. <i>Physical Review Letters</i> , 2009, 103, 092002.	2.9	199
26	Search for an additional, heavy Higgs boson in the $H \rightarrow ZZ$ decay channel at $\sqrt{s} = 8$ TeV in pp collision data with the ATLAS detector. <i>European Physical Journal C</i> , 2016, 76, 45.	1.4	197
27	Analysis of the Quantum Numbers of the $X(3872)$ Particle. <i>Physical Review Letters</i> , 2007, 98, 132002.	2.9	193
28	Polarizations of J/ψ and Z and J/ψ and Z decay channel at $\sqrt{s} = 8$ TeV in pp collision data with the ATLAS detector. <i>European Physical Journal C</i> , 2016, 76, 45.	2.9	192
29	Measurements of inclusive W and Z cross sections in pp collisions at $\sqrt{s} = 1.96$ TeV. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2007, 34, 2457-2544.	1.4	188
30	Forward-Backward Asymmetry in Top-Quark Production in pp collisions at $\sqrt{s} = 1.96$ TeV. <i>Physical Review Letters</i> , 2008, 101, 202001.	2.9	187
31	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
32	First Flavor-Tagged Determination of Bounds on Mixing-Induced CP Violation in $B \rightarrow P$ Decays. <i>Physical Review Letters</i> , 2008, 100, 161802.	2.9	179
33	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
34	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
35	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
36	Search for $B_s^0 \rightarrow \mu^+ \mu^-$ and $B^0 \rightarrow \mu^+ \mu^-$ Decays with $\sqrt{s} = 7$ TeV. <i>Physical Review Letters</i> , 2008, 100, 101802.	2.9	172

#	ARTICLE	IF	CITATIONS
37	Electron and photon energy calibration with the ATLAS detector using LHC Run 1 data. European Physical Journal C, 2014, 74, 1.	1.4	172
38	Search for new particles decaying into dijets in proton-antiproton collisions at $\sqrt{s} = 1.96$ TeV. Physical Review D, 2009, 79, .	1.6	171
39	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, 2017, 2017, 1.	1.6	168
40	Measurement of the transverse momentum and ϕ^*_{η} 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
41	Measurement of the inclusive jet cross section at the Fermilab Tevatron. Physical Review D, 2008, 78, .	2.9	153
42	Measurement of the inclusive jet cross section at the Fermilab Tevatron. Physical Review D, 2008, 78, .	1.6	149
43	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
44	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
45	Jet reconstruction and performance using particle flow with the ATLAS Detector. European Physical Journal C, 2017, 77, 466.	1.4	145
46	Precision measurement and interpretation of inclusive W^+W^- production. European Physical Journal C, 2017, 77, 367.	1.4	145
47	Measurement of the $t\bar{t}$ production cross-section using e^+e^- events with 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
48	Measurement of the $B_s^0 \rightarrow B^0$ Oscillation Frequency. Physical Review Letters, 2006, 97, 062003.	2.9	141
49	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
50	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
51	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
52	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
53	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
54	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

#	ARTICLE	IF	CITATIONS
55	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
56	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
57	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
58	Top quark mass measurement using the template method in the lepton+jets channel at CDF II. Physical Review D, 2006, 73, .	1.6	124
59	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
60	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.	1.4	123
61	Measurement of the top quark forward-backward production asymmetry and its dependence on event kinematic properties. Physical Review D, 2013, 87, .	1.6	122
62	Measurement of the Dipion Mass Spectrum in $X(3872) \rightarrow \pi^+ \pi^-$ Decays. Physical Review Letters, 2006, 96, 102002.	2.9	121
63	Readiness of the ATLAS Tile Calorimeter for LHC collisions. European Physical Journal C, 2010, 70, 1193-1236.	1.4	121
64	Observation of the Baryonic Flavor-Changing Neutral Current Decay $\bar{b} \rightarrow \bar{s} \tau^+ \nu_\tau$ in $b \bar{b}$ Events. Physical Review Letters, 2011, 107, 201802.	2.9	121
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#	ARTICLE	IF	CITATIONS
91	Rapidity gap cross sections measured with the ATLAS detector in pp collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2012, 72, 1.	1.4	100
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	Precision Measurement of the $\sigma(\text{pp} \rightarrow \text{X})$ at $\sqrt{s} = 8$ TeV with the ATLAS detector. European Physical Journal C, 2016, 76, 210.	2.9	94
96	Performance of electron and photon triggers in ATLAS during LHC Run 2. European Physical Journal C, 2020, 80, 1.	1.4	93
97	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
98	Direct Measurement of the W Production Charge Asymmetry in pp Collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. European Physical Journal C, 2016, 76, 210.	2.9	91
99	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
100	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
101	Measurement of the Difference in CP-Violating Asymmetries in $D^0 \rightarrow K^+ K^-$ and $D^0 \rightarrow \pi^+ \pi^-$ Decays at CDF. Physical Review Letters, 2012, 109, 111801.	2.9	88
102	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
103	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
104	Search for High-Mass Resonances Decaying to Dimuons at CDF. Physical Review Letters, 2009, 102, 091805.	2.9	87
105	3D silicon sensors: Design, large area production and quality assurance for the ATLAS IBL pixel detector upgrade. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2012, 694, 321-330.	0.7	87
106	Electron efficiency measurements with the ATLAS detector using 2012 LHC proton-proton collision data. European Physical Journal C, 2017, 77, 195.	1.4	87
107	Measurement of multi-particle azimuthal correlations in pp, $p\bar{A} + A$ and low-multiplicity $Pb\bar{A} + A$ collisions with the ATLAS detector. European Physical Journal C, 2017, 77, 428.	1.4	86
108	Search for heavy Majorana neutrinos with the ATLAS detector in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2015, 2015, 1.	1.6	84

#	ARTICLE	IF	CITATIONS
109	Search for Large Extra Dimensions in Final States Containing One Photon or Jet and Large Missing Transverse Energy Produced in pp Collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. <i>Physical Review Letters</i> , 2014, 112, 082001.	2.9	83
110	Search for Charged Higgs Bosons in Decays of Top Quark Pairs. <i>Physical Review Letters</i> , 1999, 82, 4975-4980.	2.9	82
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	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
113	Search for production of WW/WZ 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.	2.9	81
114	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
115	Observation of Orbitally Excited B_s Mesons. <i>Physical Review Letters</i> , 2008, 100, 082001.	2.9	80
116	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
117	Observation of Exclusive Electron-Positron Production in Hadron-Hadron Collisions. <i>Physical Review Letters</i> , 2007, 98, 112001.	2.9	79
118	Search for production of WW/WZ 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	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
122	Observation of single top quark production and measurement of $ V_{tb} $ with CDF. <i>Physical Review D</i> , 2010, 82, .	1.6	77
123	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
124	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
125	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
126	Evidence for the Exclusive Decay $B_c \rightarrow \tau^+ \nu_\tau$ and Measurement of the Mass of the B_c Meson. <i>Physical Review Letters</i> , 2006, 96, 082002.	2.9	76

#	ARTICLE	IF	CITATIONS
127	Measurement of the cross section for W -boson production in association with jets in pp collisions	1.6	76
128	Angular analysis of $B_0 \rightarrow \tau^+ \tau^- K_S^0$ decays in pp collisions at $\sqrt{s}=8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1.	1.6	76
129	Performance of the ATLAS track reconstruction algorithms in dense environments in LHC Run 2. European Physical Journal C, 2017, 77, 673.	1.4	75
130	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
131	Search for New Bottomlike Quark Pair Decays		

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145	Search for production of vector-like quark pairs and of four top quarks in the lepton-plus-jets final state in pp collisions at $s = 8 \sqrt{s} = 8 \text{ TeV}$ with the ATLAS detector. Journal of High Energy Physics, 2015, 2015, 1.	1.6	71
146	Search for a high-mass Higgs boson decaying to a W boson pair in pp collisions at $s = 8 \sqrt{s} = 8 \text{ TeV}$ with the ATLAS detector. Journal of High Energy Physics, 2016, 2016, 1.	1.6	71
147	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
148	Identification and energy calibration of hadronically decaying tau leptons with the ATLAS experiment in pp collisions at $\sqrt{s} = 8 \text{ TeV}$. European Physical Journal C, 2015, 75, 303.	1.4	70
149	Search for resonances in diphoton events at $s = 13 \sqrt{s} = 13 \text{ TeV}$ with the ATLAS detector. Journal of High Energy Physics, 2016, 2016, 1.	1.6	70
150	Search for $Z \rightarrow e^+e^-$ Using Dielectron Mass and Angular Distribution. Physical Review Letters, 2006, 96, 211801.	2.9	69
151	Search for New Physics in High-Mass Electron-Positron Events in $pp \rightarrow e^+e^- + \text{jets}$ Collisions at $\sqrt{s} = 1.96 \text{ TeV}$. Physical Review Letters, 2007, 99, 171802.	2.9	69
152	Inclusive Search for Squark and Gluino Production in $pp \rightarrow \tilde{q}\tilde{q}^*$ Collisions at $\sqrt{s} = 1.96 \text{ TeV}$. Physical Review Letters, 2009, 102, 121801.	2.9	69
153	Search for charged Higgs bosons decaying via $H \rightarrow \tau^+\tau^-$, $H \rightarrow b\tau$ in fully hadronic final states using pp collision data at $\sqrt{s} = 8 \text{ TeV}$ with the ATLAS detector. Journal of High Energy Physics, 2015, 2015, 1.	1.6	69
154	Cross Section for b-Jet Production in $pp \rightarrow b\tilde{q}\tilde{q}^*$ Collisions at $\sqrt{s} = 1.8 \text{ TeV}$. Physical Review Letters, 2000, 85, 5068-5073.	2.9	68
155	Measurement of flow harmonics with multi-particle cumulants in Pb+Pb collisions at $\sqrt{s_{NN}} = 2.76 \text{ TeV}$ with the ATLAS detector. European Physical Journal C, 2014, 74, 3157.	1.4	68
156	Search for new resonances in mass distributions of jet pairs using 139 fb $^{-1}$ of pp collisions at $\sqrt{s} = 13 \text{ TeV}$ with the ATLAS detector. Journal of High Energy Physics, 2020, 2020, 1.	1.6	68
157	Measurement of charged-particle spectra in Pb+Pb collisions at $\sqrt{s_{NN}} = 2.76 \text{ TeV}$ with the ATLAS detector at the LHC. Journal of High Energy Physics, 2015, 2015, 1.	1.6	67
158	Search for direct pair production of a chargino and a neutralino decaying to the 125 GeV Higgs boson in $pp \rightarrow \tilde{\chi}^{\pm}\tilde{\chi}^0 + H$ collisions with the ATLAS detector. European Physical Journal C, 2015, 75, 208.	1.4	67
159	Search for long-lived charginos based on a disappearing-track signature in pp collisions at $\sqrt{s} = 13 \text{ TeV}$ with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1.	1.6	67
160	Search for top squark pair production in final states with one isolated lepton, jets, and missing transverse momentum in $s \sqrt{s} = 8 \text{ TeV}$ pp collisions with the ATLAS detector. Journal of High Energy Physics, 2014, 2014, 1.	1.6	66
161	A search for $t\bar{t} \rightarrow \tilde{t}\tilde{t}^*$ resonances using lepton-plus-jets events in proton-proton collisions at $s = 8 \sqrt{s} = 8 \text{ TeV}$ with the ATLAS detector. Journal of High Energy Physics, 2015, 2015, 1.	1.6	66
162	A search for pair-produced resonances in four-jet final states at $\sqrt{s} = 13 \text{ TeV}$ with the ATLAS detector. European Physical Journal C, 2018, 78, 250.	1.4	66

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163	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
164	Measurement of CP-violating asymmetries in $D^0 \rightarrow \pi^+ \pi^-$ and $D^0 \rightarrow K^+ K^-$ decays at CDF. Physical Review D, 2012, 85, .	1.6	65
165	Measurement of particle production and inclusive differential cross sections in $\sqrt{s} = 7$ TeV pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector. Physical Review D, 2009, 79, .	1.6	64
166	Measurement of the $W \rightarrow \tau^+ \tau^-$, $Z \rightarrow \tau^+ \tau^-$ production cross sections in proton-proton collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector. Journal of High Energy Physics, 2010, 2010, 1.	1.6	64
167	Measurement of the $W+W$ Production Cross Section and Search for Anomalous WWZ Couplings in pp Collisions at $\sqrt{s} = 1.96$ TeV. Physical Review Letters, 2010, 104, 2.9 201801.		64
168	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
169	Evidence for the $H \rightarrow b\bar{b}$ decay with the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1.	1.6	64
170	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
171	Search for Neutral Higgs Bosons of the Minimal Supersymmetric Standard Model Decaying to $\tau\tau$ in pp Collisions at $\sqrt{s} = 1.96$ TeV. Physical Review Letters, 2006, 96, 011802.	2.9	63
172	Measurement of the differential cross-sections of prompt and non-prompt production of $\psi(2S)$ and $\psi(1S)$ mesons in pp collisions at $\sqrt{s} = 7$ and 8 TeV with the ATLAS detector. European Physical Journal C, 2016, 76, 283.	1.4	63
173	Measurement of the Bottom-Strange Meson Mixing Phase in the Full CDF Data Set. Physical Review Letters, 2012, 109, 171802.	2.9	62
174	Performance of the ATLAS muon trigger in pp collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2015, 75, 120.	1.4	62
175	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
176	Readiness of the ATLAS liquid argon calorimeter for LHC collisions. European Physical Journal C, 2010, 70, 723-753.	1.4	61
177	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
178	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
179	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
180	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

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181	Search for doubly charged scalar bosons decaying into same-sign W boson pairs with the ATLAS detector. European Physical Journal C, 2019, 79, 58. Search for the Flavor-Changing Neutral-Current Decay $t \rightarrow Z q$ in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2015, 2015, 1.	1.4	61
182	Search for the Flavor-Changing Neutral-Current Decay $t \rightarrow Z q$ in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2015, 2015, 1.	2.9	60
183	Measurement of multi-jet cross sections in proton-proton collisions at a 7 TeV center-of-mass energy. European Physical Journal C, 2011, 71, 1.	1.4	60
184	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
185	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
186	Search for a new resonance decaying to a W or Z boson and a Higgs boson in the $u\bar{u} + b\bar{b}$ final states with the ATLAS detector. European Physical Journal C, 2015, 75, 263.	1.4	60
187	Measurement of the centrality dependence of the charged-particle pseudorapidity distribution in proton-proton collisions at $\sqrt{s_{NN}} = 5.02$ TeV with the ATLAS detector. European Physical Journal C, 2016, 76, 199.	1.4	60
188	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
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525	Observation of $B_s \rightarrow B_s \gamma$ decays. <i>Physical Review D</i> , 2011, 83, .	1.6	21
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640	Measurement of event-shape observables in $Z \rightarrow \ell\ell$ events in pp collisions at $\sqrt{s}=7$ TeV with the ATLAS detector at the LHC. European Physical Journal C, 2016, 76, 375.	1.4	15
641	Measurement of fiducial differential cross sections of gluon-fusion production of Higgs bosons decaying to $WW \rightarrow \ell\ell$ with the ATLAS detector at $\sqrt{s}=8$ TeV. Journal of High Energy Physics, 2016, 2016, 1.	1.6	15
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691	Search for the Standard Model Higgs Boson Decaying to a $b\bar{b}$ Pair in Events with No Charged Leptons and Large Missing Transverse Energy using the Full CDF Data Set. Physical Review Letters, 2012, 109, 111805.	2.9	12
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774	Measurements of differential cross-sections in four-lepton events in 13 TeV proton-proton collisions with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.	1.6	8

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775	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.	1.6	8
776	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.	1.4	8
777	Measurement of the top-quark mass using missingET+jetsevents with secondary vertexb-tagging at CDF II. <i>Physical Review D</i> , 2007, 75, .	1.6	7
778	Search for Technicolor Particles Produced in Association with a W Boson at CDF. <i>Physical Review Letters</i> , 2010, 104, 111802.	2.9	7
779	3D-FBK pixel sensors: Recent beam tests results with irradiated devices. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2011, 650, 150-157.	0.7	7
780	Search for new heavy particles decaying to ZZ collisions at $\sqrt{s}=1.96$ TeV. <i>Physical Review D</i> , 2011, 83, .	1.6	7
781	Measurement of the Cross Section for Prompt Isolated Diphoton Production in pp Collisions at $\sqrt{s}=1.96$ TeV. <i>Physical Review Letters</i> , 2011, 107, 102003.	2.9	7
782	Top-Quark Mass Measurement Using Events with Missing Transverse Energy and Jets at CDF. <i>Physical Review Letters</i> , 2011, 107, 232002.	2.9	7
783	Search for a Higgs Boson in the Diphoton Final State in pp Collisions at $\sqrt{s}=1.96$ TeV. <i>Physical Review Letters</i> , 2012, 108, 011801.	2.9	7
784	Novel inclusive search for the Higgs boson in the four-lepton final state at CDF. <i>Physical Review D</i> , 2012, 86, .	1.6	7
785	Invariant mass distribution of jet pairs produced in association with a W boson in pp collisions at $\sqrt{s}=1.96$ TeV. <i>Physical Review Letters</i> , 2011, 107, 102003.	1.6	7
786	Characterisation of novel prototypes of monolithic HV-CMOS pixel detectors for high energy physics experiments. <i>Journal of Instrumentation</i> , 2017, 12, C06009-C06009.	0.5	7
787	Measurement of σ_{au} , polarisation in $Z/\gamma \rightarrow \text{au au}$. <i>European Physical Journal C</i> , 2018, 78, 163.	1.4	7
788	Search for dijet resonances in events with an isolated charged lepton using $\sqrt{s}=13$ TeV proton-proton collision data collected by the ATLAS detector. <i>Journal of High Energy Physics</i> , 2020, 2020, 1.	1.6	7
789	Search for R-parity-violating supersymmetry in a final state containing leptons and many jets with the ATLAS experiment using $\sqrt{s}=13$ TeV proton-proton collision data. <i>European Physical Journal C</i> , 2021, 81, 1.	1.4	7
790	Configuration and performance of the ATLAS b-jet triggers in Run 2. <i>European Physical Journal C</i> , 2021, 81, 1.	1.4	7
791	Search for flavour-changing neutral-current interactions of a top quark and a gluon in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2022, 82, .	1.4	7
792	Search for narrow resonances lighter than η' mesons. <i>European Physical Journal C</i> , 2009, 62, 319-326.	1.4	6

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793	Search for standard model Higgs boson production in association with a WZ production cross section in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2019, 2019, 1.	1.6	6
794	Measurement of the branching fraction $B(B \rightarrow W^+ \tau^- \nu_\tau)$ at CDF. Physical Review D, 2012, 85, .	1.6	6
795	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. Journal of High Energy Physics, 2021, 2021, 1.	1.6	6
796	Measurement of the branching fraction $B(B \rightarrow W^+ \tau^- \nu_\tau)$ at CDF. Physical Review D, 2012, 85, .	1.6	6
797	Searches for the Higgs boson decaying to $W^+ W^- \tau^+ \tau^-$, $W^+ W^- \tau^+ \nu_\tau$, $W^+ W^- \tau^+ \mu^-$ with the CDF II detector. Physical Review D, 2013, 88, .	1.6	6
799	Test beam measurement of ams H35 HV-CMOS capacitively coupled pixel sensor prototypes with high-resistivity substrate. Journal of Instrumentation, 2018, 13, P12009-P12009.	0.5	6
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801	Measurement of ZZ production in the $\tau^+ \tau^- \tau^+ \tau^-$ final state with the ATLAS detector in pp collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	1.6	6
802	Performance of Irradiated RD53A 3D Pixel Sensors. Journal of Instrumentation, 2019, 14, P06005-P06005.	0.5	6
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804	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. Journal of High Energy Physics, 2021, 2021, 1.	1.6	6
805	Performance of the ATLAS Level-1 topological trigger in Run-2. European Physical Journal C, 2022, 82, 1.	1.4	6
806	Search for new physics in the $W^+ W^- \tau^+ \tau^-$ final state with a low-lepton threshold at the Collider Detector at Fermilab. Physical Review D, 2009, 79, .	1.6	5
807	Searching for the inclusive $W^+ W^- \tau^+ \tau^-$ signature for radiative top quark decay and non-standard-model processes. Physical Review D, 2009, 80, .	1.6	5
808	Study of multi-muon events produced in pp interactions at $\sqrt{s} = 1.96$ TeV. European Physical Journal C, 2010, 68, 109-118.	1.4	5
809	Search for anomalous production of multiple leptons in association with W and Z bosons at CDF. Physical Review D, 2012, 85, .	1.6	5
810	Search for anomalous production of multiple leptons in association with W and Z bosons at CDF. Physical Review D, 2012, 85, .	1.6	5

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812	Future trends of 3D silicon sensors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2013, 731, 201-204.	0.7	5
813	Search for a Two-Higgs-Boson Doublet Using a Simplified Model in $pp \rightarrow \tau\tau + \text{hadrons}$ Collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.	1.6	5
814	Search for anomalous production of events with a photon, jet, b-quark jet, and missing transverse energy. Physical Review D, 2009, 80, .	2.9	5
815	New test beam results of 3D and pad detectors constructed with poly-crystalline CVD diamond. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2020, 958, 162675.	0.7	5
816	Measurement of long-range two-particle azimuthal correlations in Z-boson tagged pp collisions at $\sqrt{s} = 8$ and 13 TeV. European Physical Journal C, 2020, 80, 1.	1.4	5
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818	Search for phenomena beyond the Standard Model in events with large b-jet multiplicity using the ATLAS detector at the LHC. European Physical Journal C, 2021, 81, 1.	1.4	5
819	Measurement of the inclusive isolated-photon cross section in pp collisions at $\sqrt{s} = 13$ TeV using 36 fb ⁻¹ of ATLAS data. Journal of High Energy Physics, 2019, 2019, 1.	1.6	5
820	3D sensors for the HL-LHC. Journal of Instrumentation, 2017, 12, C01026-C01026.	0.5	5
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822	Search for the Higgs Boson Produced in Association with $Z\tau^+\tau^-$, $\tau^+\tau^-$, $\tau^+\tau^-$ in $pp \rightarrow \tau\tau + \text{hadrons}$ Collisions at $\sqrt{s} = 1.96$ TeV. Physical Review Letters, 2008, 101, 251803.	2.9	4
823	Search for the neutral current top quark decay $t \rightarrow Zc$ using the ratio of $t \rightarrow Zc$ to $t \rightarrow Wb$ decays. Physical Review Letters, 2009, 103, 071801.	1.6	4
824	Search for anomalous production of events with a photon, jet, b-quark jet, and missing transverse energy. Physical Review D, 2009, 80, .	1.6	4
825	Search for the Higgs boson in the all-hadronic final state using the CDF II detector. Physical Review D, 2011, 84, .	1.6	4
826	Search for new phenomena in events with two Z bosons and missing transverse momentum in $pp \rightarrow Z\tau^+\tau^-$ collisions at $\sqrt{s} = 1.96$ TeV. Physical Review D, 2012, 85, .	1.6	4
827	Search for Supersymmetry with Like-Sign Lepton-Tau Events at CDF. Physical Review Letters, 2013, 110, 201802.	2.9	4
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830	Search for low-scale gravity signatures in multi-jet final states with the ATLAS detector at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2015, 2015, 1.	1.6	4
831	Measurement of jet activity in top quark events using the e^+e^- final state with two b-tagged jets in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2016, 2016, 1.	1.6	4
832	Measurement of the WW and WZ production cross section using final states with a charged lepton and heavy-flavor jets in the full CDF Run II data set. Physical Review D, 2016, 94, .	1.6	4
833	Search for excited electrons singly produced in proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS experiment at the LHC. European Physical Journal C, 2019, 79, .	1.4	4
834	Measurement of hadronic event shapes in high- p_T multijet final states at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.	1.6	4
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836	Measurement of K_S^0 and Λ^0 production in pp dileptonic events in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector. European Physical Journal C, 2019, 79, 1.	1.4	4
837	Measurement of the energy response of the ATLAS calorimeter to charged pions from $W \rightarrow \mu \nu$ events in Run 2 data. European Physical Journal C, 2022, 82, 1.	1.4	4
838	Measurement of the production cross section of pairs of isolated photons in pp collisions at 13 TeV with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.	1.6	4
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840	Measurement of the ratio of branching fractions $B(B \rightarrow \tau^+ \nu_\tau) / B(B \rightarrow K^+ \nu_\tau)$. Physical Review D, 2009, 79, .	1.6	3
841	Production of Λ^0 , Σ^0 , and Σ^\pm hyperons in pp collisions at $\sqrt{s} = 1.96$ TeV. Physical Review D, 2012, 86, 1.	1.6	3
842	Search for standard model Higgs boson production in association with a W boson at CDF. Physical Review D, 2012, 85, .	1.6	3
843	Measurement of the Z boson production cross section in the $Z \rightarrow \mu^+ \mu^-$ channel. Physical Review D, 2012, 85, .	1.5	3
844	Measurement of the k_T splitting scales in $Z \rightarrow \mu^+ \mu^-$ events in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1.	1.6	3
845	Measurement of distributions sensitive to the underlying event in inclusive Z boson production in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. European Physical Journal C, 2019, 79, 1.	1.4	3
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848	Measurement of the inclusive jet cross-section in proton-proton collisions at $\sqrt{s} = 7$ TeV using 4.5 fb ⁻¹ of data with the ATLAS detector. , 2015, 2015, 1.		3
849	Study of the spin and parity of the Higgs boson in diboson decays with the ATLAS detector. , 2015, 75, 1.		3
850	ATLAS Run 1 searches for direct pair production of third-generation squarks at the Large Hadron Collider. , 2015, 75, 1.		3
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853	Search for WZ production in lepton plus jets final states at CDF. Physical Review D, 2009, 79, .	1.6	2
854	Overview of silicon pixel sensor development for the ATLAS insertable B-layer (IBL). , 2011, , .		2
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856	Search for the standard model Higgs boson produced in association with a Z boson in pp collisions at $\sqrt{s} = 1.96$ TeV. Physical Review D, 2012, 86, .	1.5	2
857	Recent results on 3D double-sided detectors with slim edges. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2013, 731, 198-200.	0.7	2
858	Search for a dijet resonance in events with jets and missing transverse energy in pp collisions at $\sqrt{s} = 1.96$ TeV. Physical Review D, 2013, 88, .	1.6	2
859	Search for new physics in trilepton events and limits on the associated chargino-neutralino production at CDF. Physical Review D, 2014, 90, .	1.6	2
860	A search for an excited muon decaying to a muon and two jets in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. New Journal of Physics, 2016, 18, 073021.	1.2	2
861	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. Journal of High Energy Physics, 2022, 2022, 1.	1.6	2
862	Measurement of the energy asymmetry in $t\bar{t}$ production at $\sqrt{s} = 13$ TeV with the ATLAS experiment and interpretation in the SMEFT framework. European Physical Journal C, 2022, 82, .	1.4	2
863	Publisher's Note: Measurement of the $W+W$ Production Cross Section and Search for Anomalous WW^3 and WWZ Couplings in pp Collisions at $\sqrt{s} = 1.96$ TeV [Phys. Rev. Lett. 104, 201801 (2010)]. Physical Review Letters, 2010, 105, .		1
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866	Characterization of silicon 3D pixel detectors for the ATLAS Forward Physics experiment. , 2015, , .		1
867	First measurements of segmented silicon tracking detectors with built-in multiplication layer. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2015, 796, 136-140.	0.7	1
868	Characterisation of AMS H35 HV-CMOS monolithic active pixel sensor prototypes for HEP applications. Journal of Instrumentation, 2019, 14, P02016-P02016.	0.5	1
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870	Measurement of the charge asymmetry in top-quark pair production in the lepton-plus-jets final state in pp collision data at ($\sqrt{s}=8, \text{TeV}$) with the ATLAS detector. , 2016, 76, 1.		1
871	Search for hadronic decays of W and Z bosons in photon events in pp collisions $\text{Search for hadronic decays of } W \text{ and } Z \text{ bosons in photon events in } pp \text{ collisions}$ $\text{Search for hadronic decays of } W \text{ and } Z \text{ bosons in photon events in } pp \text{ collisions}$	1.6	0
872	Comments and Reply on: "Study of multi-muon events produced in pp interactions at $\sqrt{s}=1.96$ TeV". T. Aaltonen et al. (The CDF Collaboration). European Physical Journal C, 2010, 68, 119-123.	1.4	0
873	Publisher's Note: Novel inclusive search for the Higgs boson in the four-lepton final state at CDF [Phys. Rev. D, 86, 072012 (2012)]. Physical Review D, 2012, 86, .	1.6	0
874	Characterization and beam tests results of non-uniformly irradiated 3D pixel sensors for HEP experiments. , 2013, , .		0