

# Christos Anastopoulos

## List of Publications by Year in descending order

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Version: 2024-02-01

792  
papers

51,406  
citations

1704

104  
h-index

3034

188  
g-index

820  
all docs

820  
docs citations

820  
times ranked

13404  
citing authors

#	ARTICLE	IF	CITATIONS
1	Search for new phenomena in three- or four-lepton events in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2022, 824, 136832.	4.1	7
2	Emulating the impact of additional proton-proton interactions in the ATLAS simulation by presampling sets of inelastic Monte Carlo events. Computing and Software for Big Science, 2022, 6, 1.	2.9	5
3	Search for heavy particles in the b-tagged dijet mass distribution with additional b-tagged jets in proton-proton collisions at $\sqrt{s}=13$ TeV with the ATLAS experiment. Physical Review D, 2022, 105, .	4.7	2
4	Performance of the ATLAS Level-1 topological trigger in Run 2. European Physical Journal C, 2022, 82, 1.	3.9	6
5	Measurement of the c-jet mistagging efficiency in $\sqrt{s}=13$ TeV events using pp collision data at $\sqrt{s}=13$ TeV collected with the ATLAS detector. European Physical Journal C, 2022, 82, .	3.9	14
6	Operation and performance of the ATLAS semiconductor tracker in LHC Run 2. Journal of Instrumentation, 2022, 17, P01013.	1.2	1
7	Search for Higgs boson decays into a pair of pseudoscalar particles in the final state with the ATLAS detector in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2022, 829, 137066.	4.7	17
8	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.	4.7	2
9	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 $\sqrt{s}=13$ TeV with the ATLAS detector. European Physical Journal C, 2022, 82, 1.	3.9	8
10	Search for Higgs bosons decaying into new spin-0 or spin-1 particles in four-lepton final states with the ATLAS detector with 139 fb <sup>-1</sup> of pp collision data at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2022, 2022, 1.	4.7	10
11	AtlFast3: The Next Generation of Fast Simulation in ATLAS. Computing and Software for Big Science, 2022, 6, 1.	2.9	23
12	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.	3.9	4
13	The ATLAS inner detector trigger performance in pp collisions at $\sqrt{s}=13$ TeV during LHC Run 2. European Physical Journal C, 2022, 82, 1.	3.9	5
14	Search for associated production of a Z boson with an invisibly decaying Higgs boson or dark matter candidates at $\sqrt{s}=13$ TeV with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2022, 829, 137066.	4.1	8
15	Measurement of the nuclear modification factor for muons from charm and bottom hadrons in Pb+Pb collisions at 5.02 TeV with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2022, 829, 137077.	4.1	9
16	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. European Physical Journal C, 2022, 82, .	3.9	7
17	A search for an unexpected asymmetry in the production of $e^+e^-$ and $e^+e^+$ pairs in proton-proton collisions recorded by the ATLAS detector at $\sqrt{s}=13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2022, 830, 137106.	4.1	1
18	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, .	3.9	2

#	ARTICLE	IF	CITATIONS
19	Search for resonant pair production of Higgs bosons in the $Z(\gamma) \rightarrow b\bar{b}$ channel in $pp$ collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. <i>Physical Review D</i> , 2022, 105, .	4.7	10
20	Constraints on Higgs boson production with large transverse momentum using $Z(\gamma) \rightarrow b\bar{b}$ in $pp$ collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. <i>Physical Review D</i> , 2022, 105, .	4.7	5
21	Determination of the parton distribution functions of the proton using diverse ATLAS data from $pp$ collisions at $\sqrt{s} = 7, 8$ and $13$ TeV. <i>European Physical Journal C</i> , 2022, 82, 1.	3.9	12
22	Search for single production of a vectorlike $T$ quark decaying into a Higgs boson and top quark with fully hadronic final states using the ATLAS detector. <i>Physical Review D</i> , 2022, 105, .	4.7	10
23	Search for $Z(\gamma) \rightarrow b\bar{b}$ production in $pp$ collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. <i>Physical Review C</i> , 2022, 105, .	2.9	6
24	Search for long-lived charginos based on a disappearing-track signature using $136 \text{ fb}^{-1}$ of $pp$ collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2022, 82, .	3.9	13
25	Two-particle Bose-Einstein correlations in $pp$ collisions at $\sqrt{s} = 13$ TeV measured with the ATLAS detector at the LHC. <i>European Physical Journal C</i> , 2022, 82, .	3.9	3
26	Measurement of hadronic event shapes in high- $p_T$ multijet final states at $\sqrt{s} = 13$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2021, 2021, 1.	4.7	4
27	A search for the dimuon decay of the Standard Model Higgs boson with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2021, 812, 135980.	4.1	61
28	Measurement of the jet mass in high transverse momentum $Z(\gamma) \rightarrow b\bar{b}$ production at $\sqrt{s} = 13$ TeV using the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2021, 812, 135991.	4.1	1
29	Medium-Induced Modification of $Z(\gamma) \rightarrow b\bar{b}$ -Tagged Charged Particle Yields in $pp$ Collisions at $\sqrt{s} = 13$ TeV with the ATLAS Detector. <i>Physical Review Letters</i> , 2021, 126, 072301.	7.8	7
30	Search for squarks and gluinos in final states with jets and missing transverse momentum using $139 \text{ fb}^{-1}$ of $\sqrt{s} = 13$ TeV $pp$ collision data with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2021, 2021, 1.	4.7	37
31	Differential cross-section measurements for the electroweak production of dijets in association with a $Z$ boson in proton-proton collisions at ATLAS. <i>European Physical Journal C</i> , 2021, 81, 1.	3.9	12
32	Measurements of $WH$ and $ZH$ production in the $H \rightarrow b\bar{b}$ decay channel in $pp$ collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2021, 81, 1.	3.9	38
33	Search for dark matter in association with an energetic photon in $pp$ collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2021, 2021, 1.	4.7	18
34	Search for type-III seesaw heavy leptons in dilepton final states in $pp$ collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2021, 81, 1.	3.9	17
35	Measurement of light-by-light scattering and search for axion-like particles with $2.2 \text{ nb}^{-1}$ of $Pb+Pb$ data with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2021, 2021, 1.	4.7	19
36	Search for Higgs boson production in association with a high-energy photon via vector-boson fusion with decay into bottom quark pairs at $\sqrt{s} = 13$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2021, 2021, 1.	4.7	6

#	ARTICLE	IF	CITATIONS
37	Search for Dark Matter Produced in Association with a Dark Higgs Boson Decaying into $WZ$ or $WZ$ in Fully Hadronic Final States Longitudinal Flow Decorrelations in $WZ$ Collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.	7.8	6
38	Search for new phenomena with top quark pairs in final states with one lepton, jets, and missing transverse momentum in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.	7.8	17
39	Search for new phenomena in events with two opposite-charge leptons, jets and missing transverse momentum in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.	4.7	14
40	Search for pair production of scalar leptoquarks decaying into first- or second-generation leptons and top quarks in proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. European Physical Journal C, 2021, 81, 1.	4.7	22
41	Measurement of the CP-violating phase $\phi_{s1}$ in $B_s \rightarrow J/\psi \phi$ decays in ATLAS at 13 TeV. European Physical Journal C, 2021, 81, .	3.9	18
42	Measurement of the CP-violating phase $\phi_{s1}$ in $B_s \rightarrow J/\psi \phi$ decays in ATLAS at 13 TeV. European Physical Journal C, 2021, 81, .	3.9	13
43	Optimisation of large-radius jet reconstruction for the ATLAS detector in 13 TeV proton-proton collisions. European Physical Journal C, 2021, 81, 1.	3.9	15
44	Search for heavy resonances decaying into a pair of Z bosons in the $WZ$ and $WZ$ final states using 139 fb of proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. European Physical Journal C, 2021, 81, 1.	3.9	40
45	Search for new phenomena in final states with b-jets and missing transverse momentum in $\sqrt{s} = 13$ TeV pp collisions with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.	4.7	18
46	Measurement of the associated production of a Higgs boson decaying into b-quarks with a vector boson at high transverse momentum in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2021, 816, 136190.	4.1	17
47	Search for a heavy Higgs boson decaying into a Z boson and another heavy Higgs boson in the $WZ$ and $WZ$ final states in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. European Physical Journal C, 2021, 81, 1.	3.9	26
48	Observation of proton-induced $W+W$ production in pp collisions at $\sqrt{s} = 13$ TeV using the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2021, 816, 136190.	4.1	6
49	Search for doubly and singly charged Higgs bosons decaying into vector bosons in multi-lepton final states with the ATLAS detector using proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2021, 2021, 1.	4.7	23
50	Search for new phenomena in events with an energetic jet and missing transverse momentum in $pp$ collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Physical Review D, 2021, 103, .	4.7	64
51	Search for trilepton resonances from chargino and neutralino pair production in $\sqrt{s} = 13$ TeV pp collisions with the ATLAS detector. Physical Review D, 2021, 103, .	4.7	2
52	Measurements of $W+W$ + 1 jet production cross-sections in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.	4.7	8
53	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.	4.7	46
54	Measurements of Higgs bosons decaying to bottom quarks from vector boson fusion production with the ATLAS experiment at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2021, 81, 1.	3.9	14

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55	Search for pair production of third-generation scalar leptoquarks decaying into a top quark and a $\bar{l}_\nu$ -lepton in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.	4.7	27
56	Search for charged-lepton-flavour violation in Z-boson decays with the ATLAS detector. Nature Physics, 2021, 17, 819-825.	16.7	8
57	Search for Displaced Leptons in $\sqrt{s} = 13$ TeV pp collisions with the ATLAS Detector. Physical Review Letters, 2021, 127, 051802.	7.8	17
58	Test of the universality of $\bar{l}_\nu$ , and $\hat{1}/4$ lepton couplings in W-boson decays with the ATLAS detector. Nature Physics, 2021, 17, 813-818.	16.7	15
59	Two-particle azimuthal correlations in photonuclear ultraperipheral collisions at 5.02 TeV with ATLAS. Physical Review C, 2021, 104, .	4.7	12
60	Search for supersymmetry in events with four or more charged leptons in $139 \text{ fb}^{-1}$ of $\sqrt{s} = 13$ TeV pp collisions with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.	4.7	12
61	Determination of the parton distribution functions of the proton from ATLAS measurements of differential $W^{\pm}$ and Z boson production in association with jets. Journal of High Energy Physics, 2021, 2021, 1.	4.7	10
62	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.	4.7	8
63	A search for the decays of stopped long-lived particles at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.	4.7	5
64	Measurement of the relative production cross section with the ATLAS detector at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2021, 81, 1.	4.7	3
65	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.	3.9	82
66	Performance of the ATLAS RPC detector and Level-1 muon barrel trigger at $\sqrt{s} = 13$ TeV. Journal of Instrumentation, 2021, 16, P07029.	1.2	6
67	Search for squarks and gluinos in final states with one isolated lepton, jets, and missing transverse momentum at $\sqrt{s} = 13$ TeV with the ATLAS detector. European Physical Journal C, 2021, 81, 1.	3.9	13
68	The ATLAS Fast Tracker system. Journal of Instrumentation, 2021, 16, P07006.	1.2	5
69	Measurement of single top-quark production in association with a W boson in the single-lepton channel at $\sqrt{s} = 8$ , $13$ TeV with the ATLAS detector. European Physical Journal C, 2021, 81, 1.	3.9	3
70	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.	3.9	64
71	Evidence for Higgs boson decays to a low-mass dilepton system and a photon in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Physics Letters. Section B: Nuclear, Elementary Particle and High-Energy Physics, 2021, 819, 136412.	4.1	8
72	Measurements of sensor radiation damage in the ATLAS inner detector using leakage currents. Journal of Instrumentation, 2021, 16, P08025.	1.2	3

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73	Measurements of the inclusive and differential production cross sections of a top-quark $\bar{c}$ -antiquark pair in association with a Z boson at $\sqrt{s} = 13$ TeV with the ATLAS detector. European Physical Journal C, 2021, 81, 1.	3.9	12
74	Search for resonances decaying into photon pairs in $139 \text{ fb}^{-1}$ of pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2021, 822, 136651.	4.7	4
75	Exclusive dimuon production in ultraperipheral collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Physical Review C, 2021, 104, .	2.9	11
76	Search for New Phenomena in Final States with Two Leptons and One or No b-Tagged Jets at $s = 13$ TeV Using the ATLAS Detector. Physical Review Letters, 2021, 127, 141801.	7.8	14
77	Search for dark matter produced in association with a single top quark in $\sqrt{s} = 13$ TeV collisions with the ATLAS detector. European Physical Journal C, 2021, 81, 1.	3.9	9
78	Search for resonances decaying into photon pairs in $139 \text{ fb}^{-1}$ of pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2021, 822, 136651.	4.1	21
79	Measurements of top-quark pair single- and double-differential cross-sections in the all-hadronic channel in pp collisions at $\sqrt{s} = 13$ TeV using the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.	4.7	14
80	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.	3.9	5
81	Search for dark matter in events with missing transverse momentum and a Higgs boson decaying into two photons in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.	4.7	12
82	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. European Physical Journal C, 2021, 81, 1.	3.9	7
83	Measurement of the $t\bar{t}$ production cross section in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.	4.7	10
84	Search for dark matter produced in association with a Standard Model Higgs boson decaying into b-quarks using the full Run 2 dataset from the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.	4.7	10
85	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.	4.7	4
86	Search for exotic decays of the Higgs boson into long-lived particles in pp collisions at $\sqrt{s} = 13$ TeV using displaced vertices in the ATLAS inner detector. Journal of High Energy Physics, 2021, 2021, 1.	4.7	4
87	Search for chargino-neutralino pair production in final states with three leptons and missing transverse momentum in $\sqrt{s} = 13$ TeV pp collisions with the ATLAS detector. European Physical Journal C, 2021, 81, 1.	3.9	28
88	Configuration and performance of the ATLAS b-jet triggers in Run 2. European Physical Journal C, 2021, 81, 1.	3.9	7
89	Search for Lepton-Flavor Violation in Z-Boson Decays with Leptons with the ATLAS Detector. Physical Review Letters, 2021, 127, 141801.	7.8	8
90	Search for charginos and neutralinos in final states with two boosted hadronically decaying bosons and missing transverse momentum in $\sqrt{s} = 13$ TeV collisions at the ATLAS detector with t. Physical Review D, 2021, 104, .	4.7	25

#	ARTICLE	IF	CITATIONS
91	Search for new phenomena in $pp$ collisions in final states with tau leptons, $b$ -jets, and missing transverse momentum with the ATLAS detector. <i>Physical Review D</i> , 2021, 104, 114001.	4.7	14
92	Measurement of $b$ -quark fragmentation properties in jets using the decay $B \rightarrow \tau \nu$ in $pp$ collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2021, 2021, 1.	4.7	3
93	Combined measurements of Higgs boson production and decay using up to $80 \times 80$ GeV of proton-proton collision data at $\sqrt{s} = 13$ TeV with the ATLAS detector. <i>Physical Review D</i> , 2020, 102, 113001.	4.7	24
94	Search for displaced vertices of oppositely charged leptons from decays of long-lived particles in $pp$ collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2020, 801, 135114.	4.1	14
95	Search for non-resonant Higgs boson pair production in the $b\bar{b}\gamma$ , $1/2\gamma$ , $1/2$ final state with the ATLAS detector in $pp$ collisions at $\sqrt{s} = 13$ TeV. <i>Physical Review D</i> , 2020, 80, 113001.	4.1	13
96	Search for the Higgs boson decays $H \rightarrow \tau^+ \tau^- e e$ and $H \rightarrow \tau^+ \tau^- e \mu$ in $pp$ collisions at $\sqrt{s} = 13$ TeV. <i>Physical Review D</i> , 2020, 80, 113001.	4.1	31
97	Searches for lepton-flavour-violating decays of the Higgs boson in $s = 13$ TeV $pp$ collisions with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2020, 800, 135069.	4.1	30
98	Search for flavour-changing neutral currents in processes with one top quark and a photon using $81 \text{ fb}^{-1}$ of $pp$ collisions at $s = 13$ TeV with the ATLAS experiment. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2020, 800, 135082.	4.1	10
99	A search for the $Z\gamma$ decay mode of the Higgs boson in $pp$ collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2020, 800, 135103.	4.1	53
100	Search for the $Z\gamma$ decay mode of the Higgs boson in $pp$ collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2020, 800, 135103.	4.1	28
101	Measurement of azimuthal anisotropy of muons from charm and bottom hadrons in Pb+Pb collisions at $\sqrt{s_{NN}} = 2.76$ TeV with the ATLAS detector. <i>Physical Review D</i> , 2020, 80, 113001.	7.8	67
102	Measurements of inclusive and differential cross-sections of combined $t\bar{t}\gamma$ and $t\bar{t}W$ production in the $e\bar{\nu}_e$ channel at 13 TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2020, 2020, 1.	4.1	17
103	Measurements of inclusive and differential cross-sections of combined $t\bar{t}\gamma$ and $t\bar{t}W$ production in the $e\bar{\nu}_e$ channel at 13 TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2020, 2020, 1.	4.7	3
104	Performance of the missing transverse momentum triggers for the ATLAS detector during Run-2 data taking. <i>Journal of High Energy Physics</i> , 2020, 2020, 1.	4.7	17
105	Search for new non-resonant phenomena in high-mass dilepton final states with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2020, 2020, 1.	4.7	24
106	Measurements of the Higgs boson inclusive and differential fiducial cross sections in the $4\ell$ decay channel at $\sqrt{s} = 13$ TeV. <i>European Physical Journal C</i> , 2020, 80, 1.	3.9	32
107	Measurement of the Higgs boson production cross-section in the lepton+jets channel at $\sqrt{s} = 13$ TeV with the ATLAS detector. <i>Physical Review D</i> , 2020, 80, 113001.	4.1	12
108	Fluctuations of anisotropic flow in Pb+Pb collisions at $\sqrt{s_{NN}} = 5.02$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2020, 2020, 1.	4.7	28

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109	Performance of the ATLAS muon triggers in Run 2. Journal of Instrumentation, 2020, 15, P09015-P09015.	1.2	62
110	Search for direct production of electroweakinos in final states with one lepton, missing transverse momentum and a Higgs boson decaying into two b-jets in $\sqrt{s}=13$ TeV collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. European Physical Journal C, 2020, 80, 1.	3.9	34
111	Measurement of differential cross sections for single diffractive dissociation in $\sqrt{s}=8$ TeV pp collisions using the ATLAS ALFA spectrometer. Journal of High Energy Physics, 2020, 2020, 1.	4.7	8
112	Measurement of isolated-photon plus two-jet production in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2020, 2020, 1.	4.7	3
113	Properties of Higgs Boson Interactions with Top Quarks in the $\sqrt{s}=13$ TeV collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. European Physical Journal C, 2020, 80, 1.	7.8	40
114	Measurements of the production cross-section for a Z boson in association with b-jets in proton-proton collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2020, 2020, 1.	4.7	11
115	Search for the HH $\rightarrow$ $b\bar{b}$ process via vector-boson fusion production using proton-proton collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2020, 2020, 1.	4.7	17
116	Observation of the associated production of a top quark and a Z boson in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2020, 2020, 1.	4.7	12
117	Measurement of the transverse momentum distribution of Drell-Yan lepton pairs in proton-proton collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. European Physical Journal C, 2020, 80, 1.	3.9	28
118	Search for Heavy Higgs Bosons Decaying into Two Tau Leptons with the ATLAS Detector Using Collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. European Physical Journal C, 2020, 80, 1.	7.8	97
119	Measurement of the azimuthal anisotropy of charged-particle production in $\sqrt{s}=13$ TeV collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. European Physical Journal C, 2020, 80, 1.	4.7	80
120	Search for direct production of electroweakinos in final states with one lepton, missing transverse momentum and a Higgs boson decaying into two tau leptons with the ATLAS detector. European Physical Journal C, 2020, 80, 1.	2.9	29
121	Search for long-lived neutral particles produced in $\sqrt{s}=13$ TeV collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. European Physical Journal C, 2020, 80, 1.	4.7	33
122	Search for direct production of electroweakinos in final states with missing transverse momentum and a Higgs boson decaying into photons in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2020, 2020, 1.	4.7	20
123	Measurement of soft-drop jet observables in $\sqrt{s}=13$ TeV collisions with the ATLAS detector at $\sqrt{s}=13$ TeV with the ATLAS detector. European Physical Journal C, 2020, 80, 1.	4.7	4
124	Measurements of top-quark pair spin correlations in the $\mu\mu$ channel at $\sqrt{s}=13$ TeV using pp collisions in the ATLAS detector. European Physical Journal C, 2020, 80, 1.	4.7	21
125	Measurements of top-quark pair spin correlations in the $\mu\mu$ channel at $\sqrt{s}=13$ TeV using pp collisions in the ATLAS detector. European Physical Journal C, 2020, 80, 1.	3.9	22
126	Performance of the upgraded PreProcessor of the ATLAS Level-1 Calorimeter Trigger. Journal of Instrumentation, 2020, 15, P11016-P11016.	1.2	4



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127	Search for new phenomena in final states with large jet multiplicities and missing transverse momentum using $\sqrt{s} = 13$ TeV proton-proton collisions recorded by ATLAS in Run 2 of the LHC. <i>Journal of High Energy Physics</i> , 2020, 2020, 1.	4.7	12
128	Search for Higgs boson decays into two low-mass spin-0 particles in the $b\bar{b}$ channel with the ATLAS detector using $\sqrt{s} = 13$ TeV proton-proton collisions at the ATLAS detector. <i>Physical Review Letters</i> , 2020, 125, 221802.	4.7	17
129	Search for Higgs Boson Decays into a Z Boson and a Light Hadronically Decaying Resonance Using $\sqrt{s} = 13$ TeV pp Collision Data from the ATLAS Detector. <i>Physical Review Letters</i> , 2020, 125, 221802.	7.8	20
130	Higgs boson production cross-section measurements and their EFT interpretation in the $b\bar{b}$ decay channel at $\sqrt{s} = 13$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2020, 80, 1.	3.9	41
131	Combination of the W boson polarization measurements in top quark decays using ATLAS and CMS data at $\sqrt{s} = 8$ TeV. <i>Journal of High Energy Physics</i> , 2020, 2020, 1.	4.7	9
132	Search for heavy neutral Higgs bosons produced in association with $b\bar{b}$ -quarks and decaying into $b\bar{b}$ -quarks at $\sqrt{s} = 13$ TeV pp collisions with the ATLAS detector. <i>Physical Review D</i> , 2020, 102, 1.	4.7	22
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418	Measurement of jet fragmentation in Pb+Pb and pp collisions at $\sqrt{s_{\text{NN}}} = 2.76$ TeV. European Physical Journal C, 2017, 77, 379.	3.9	51
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437	Search for new phenomena in dijet events using $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"> \langle \text{mml:mrow}> \langle \text{mml:mn}> 37 </\text{mml:mn}> \langle \text{mml:mtext}> \hat{\alpha}_s </\text{mml:mtext}> \langle \text{mml:mtext}> \hat{\alpha}_s </\text{mml:mtext}> \langle \text{mml:msup}> 3 </\text{mml:msup}> \langle \text{mml:math}>$ of $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"> \langle \text{mml:mi}> p </\text{mml:mi}> \langle \text{mml:mi}> p </\text{mml:mi}> </\text{mml:math}>$ collision data collected at $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"> \langle \text{mml:math}> \hat{\alpha}_s </\text{mml:math}> \langle \text{mml:math}> \hat{\alpha}_s </\text{mml:math}> \langle \text{mml:math}> \hat{\alpha}_s </\text{mml:math}>$ Physical Review D, 2017, 96,	4.7	114
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603	display="inline" < mml:mrow > < mml:mi > Z < /mml:mi > < /mml:mrow > < /mml:math > Boson Decays to < mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" > < mml:mrow > < mml:mi > J < /mml:mi > < mml:mo > / < /mml:mo > < mml:mi > \tilde{\chi} < /mml:mi > < mml:mi > \tilde{\chi}^3 < /mml:mi > < /mml:mrow > < /mml:math > <a href="http://www.w3.org/1998/Math/MathML">http://www.w3.org/1998/Math/MathML</a> display="inline" > < mml:mrow > < mml:mi		

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