## Mohamad Kassem Ayoub

## List of Publications by Citations

 $\textbf{Source:} \ https://exaly.com/author-pdf/126959/mohamad-kassem-ayoub-publications-by-citations.pdf$ 

Version: 2024-04-09

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

268 papers

6,331 citations

35 h-index

69 g-index

287 ext. papers

8,440 ext. citations

4.9 avg, IF

1.92 L-index

#	Paper	IF	Citations
268	Combined Measurement of the Higgs Boson Mass in pp Collisions at sqrt[s]=7 and 8 TeV with the ATLAS and CMS Experiments. <i>Physical Review Letters</i> , <b>2015</b> , 114, 191803	7.4	709
267	Measurements of the Higgs boson production and decay rates and constraints on its couplings from a combined ATLAS and CMS analysis of the LHC pp collision data at (sqrt{s}=7) and 8 TeV. Journal of High Energy Physics, 2016, 2016, 1	5.4	364
266	Performance of the ATLAS trigger system in 2015. European Physical Journal C, 2017, 77, 317	4.2	272
265	Muon reconstruction performance of the ATLAS detector in proton-proton collision data at [Formula: see text]=13[TeV. <i>European Physical Journal C</i> , <b>2016</b> , 76, 292	4.2	263
264	Luminosity determination in collisions at [Formula: see text] = 8 TeV using the ATLAS detector at the LHC. <i>European Physical Journal C</i> , <b>2016</b> , 76, 653	4.2	188
263	Measurements of the Higgs boson production and decay rates and coupling strengths using collision data at [Formula: see text] and 8TeV in the ATLAS experiment. <i>European Physical Journal C</i> , <b>2016</b> , 76, 6	4.2	185
262	Topological cell clustering in the ATLAS calorimeters and its performance in LHC Run 1. <i>European Physical Journal C</i> , <b>2017</b> , 77, 490	4.2	177
261	Performance of pile-up mitigation techniques for jets in [Formula: see text] collisions at [Formula: see text] TeV using the ATLAS detector. <i>European Physical Journal C</i> , <b>2016</b> , 76, 581	4.2	148
260	Observation of Higgs boson production in association with a top quark pair at the LHC with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2018</b> , 784, 173-191	4.2	118
259	Study of the spin and parity of the Higgs boson in diboson decays with the ATLAS detector. <i>European Physical Journal C</i> , <b>2015</b> , 75, 476	4.2	104
258	Search for dark matter and other new phenomena in events with an energetic jet and large missing transverse momentum using the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	101
257	Measurement of the Inelastic Proton-Proton Cross Section at sqrt[s]=13 TeV with the ATLAS Detector at the LHC. <i>Physical Review Letters</i> , <b>2016</b> , 117, 182002	7.4	92
256	Observation of H-bb decays and VH production with the ATLAS detector. <i>Physics Letters, Section B:</i> Nuclear, Elementary Particle and High-Energy Physics, <b>2018</b> , 786, 59-86	4.2	87
255	Search for additional heavy neutral Higgs and gauge bosons in the ditau final state produced in 36 fbd of pp collisions at (sqrt{s}=13) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	81
254	Performance of missing transverse momentum reconstruction with the ATLAS detector using proton-proton collisions at. <i>European Physical Journal C</i> , <b>2018</b> , 78, 903	4.2	66
253	Measurement of W∃ and Z-boson production cross sections in pp collisions at s=13 TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2016</b> , 759, 601-621	4.2	64
252	Precision measurement and interpretation of inclusive, and production cross sections with the ATLAS detector. <i>European Physical Journal C</i> , <b>2017</b> , 77, 367	4.2	56

## (2018-2018)

251	Search for doubly charged Higgs boson production in multi-lepton final states with the ATLAS detector using proton-proton collisions at. <i>European Physical Journal C</i> , <b>2018</b> , 78, 199	4.2	55	
250	Search for dark matter at [Formula: see text] in final states containing an energetic photon and large missing transverse momentum with the ATLAS detector. <i>European Physical Journal C</i> , <b>2017</b> , 77, 393	4.2	52	
249	Electron and photon performance measurements with the ATLAS detector using the 2015 <b>2</b> 017 LHC proton-proton collision data. <i>Journal of Instrumentation</i> , <b>2019</b> , 14, P12006-P12006	1	51	
248	Evidence for the (Hto boverline{b}) decay with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1	5.4	50	
247	Search for electroweak production of charginos and sleptons decaying into final states with two leptons and missing transverse momentum in (sqrt{s}=13) (text {TeV}) pp collisions using the ATLAS detector. European Physical Journal C, 2020, 80, 1	4.2	50	
246	Measurements of top-quark pair differential cross-sections in the lepton+jets channel in collisions at [Formula: see text] using the ATLAS detector. <i>European Physical Journal C</i> , <b>2016</b> , 76, 538	4.2	48	
245	Combination of the Searches for Pair-Produced Vectorlike Partners of the Third-Generation Quarks at sqrt[s]=13 TeV with the ATLAS Detector. <i>Physical Review Letters</i> , <b>2018</b> , 121, 211801	7:4	48	
244	Search for heavy resonances decaying into in the final state in collisions at with the ATLAS detector. <i>European Physical Journal C</i> , <b>2018</b> , 78, 24	4.2	47	
243	Combination of Searches for Invisible Higgs Boson Decays with the ATLAS Experiment. <i>Physical Review Letters</i> , <b>2019</b> , 122, 231801	7.4	45	
242	ATLAS b-jet identification performance and efficiency measurement with (t{bar{t}}) events in pp collisions at (sqrt{s}=13) TeV. <i>European Physical Journal C</i> , <b>2019</b> , 79, 1	4.2	43	
241	Jet reconstruction and performance using particle flow with the ATLAS Detector. <i>European Physical Journal C</i> , <b>2017</b> , 77, 466	4.2	42	
240	Measurement of the top quark mass in the ttl-dilepton channel from s=8 TeV ATLAS data. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics,</i> <b>2016</b> , 761, 350-371	4.2	42	
239	Search for heavy resonances in the and final states using proton-proton collisions at []with the ATLAS detector. <i>European Physical Journal C</i> , <b>2018</b> , 78, 293	4.2	41	
238	Observation of Light-by-Light Scattering in Ultraperipheral Pb+Pb Collisions with the ATLAS Detector. <i>Physical Review Letters</i> , <b>2019</b> , 123, 052001	7.4	41	
237	Measurement of the Higgs boson mass in the H -₹Z? -≯Iand H -≵thannels with s=13 TeV pp collisions using the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2018</b> , 784, 345-366	4.2	41	
236	Search for charged Higgs bosons decaying into top and bottom quarks at (sqrt{s}=13) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	39	
235	Electron reconstruction and identification in the ATLAS experiment using the 2015 and 2016 LHC proton $\beta$ roton collision data at (sqrt{s} = 13) (text {TeV}). European Physical Journal C, <b>2019</b> , 79, 1	4.2	37	
234	Measurement of the Higgs boson coupling properties in the H -ZZ* -≯Idecay channel at ( sqrt{s}=13) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	36	

233	Measurement of longitudinal flow decorrelations in Pb+Pb collisions at and 5.02 TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2018</b> , 78, 142	4.2	35
232	Search for heavy particles decaying into top-quark pairs using lepton-plus-jets events in proton-proton collisions at \( \text{\textsuper} \) with the ATLAS detector. \( \text{European Physical Journal C, 2018, 78, 565} \)	4.2	34
231	Performance of the ATLAS track reconstruction algorithms in dense environments in LHC Run 2. <i>European Physical Journal C</i> , <b>2017</b> , 77, 673	4.2	33
230	Search for top-squark pair production in final states with one lepton, jets, and missing transverse momentum using 36 fbfl of (sqrt{s}=13) TeV pp collision data with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	33
229	Search for charged Higgs bosons decaying via H\(\textit{H}\) -\(\frac{1}{2}\) In the \(\textit{H}\)jets and \(\textit{H}\)lepton final states with 36 fb\(\textit{I}\) of pp collision data recorded at (sqrt\{s\}=13) TeV with the ATLAS experiment. \(\textit{Journal of High Energy Physics, 2018, 2018, 1}\)	5.4	33
228	Search for dark matter produced in association with bottom or top quarks in TeV collisions with the ATLAS detector. <i>European Physical Journal C</i> , <b>2018</b> , 78, 18	4.2	32
227	Search for pair production of Higgs bosons in the (boverline{b}boverline{b}) final state using proton-proton collisions at (sqrt{s}=13) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	31
226	Constraints on mediator-based dark matter and scalar dark energy models using (sqrt{s}) = 13 TeV pp collision data collected by the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	31
225	Measurements of b-jet tagging efficiency with the ATLAS detector using (toverline{t}) events at (sqrt{s}=13) TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	31
224	Performance of electron and photon triggers in ATLAS during LHC Run 2. <i>European Physical Journal C</i> , <b>2020</b> , 80, 1	4.2	30
223	Search for Heavy Higgs Bosons Decaying into Two Tau Leptons with the ATLAS Detector Using pp Collisions at sqrt[s]=13 TeV. <i>Physical Review Letters</i> , <b>2020</b> , 125, 051801	7.4	30
222	Reconstruction of primary vertices at the ATLAS experiment in Run 1 proton-proton collisions at the LHC. <i>European Physical Journal C</i> , <b>2017</b> , 77, 332	4.2	29
221	Search for Low-Mass Dijet Resonances Using Trigger-Level Jets with the ATLAS Detector in pp Collisions at sqrt[s]=13 TeV. <i>Physical Review Letters</i> , <b>2018</b> , 121, 081801	7.4	29
220	Reconstruction of hadronic decay products of tau leptons with the ATLAS experiment. <i>European Physical Journal C</i> , <b>2016</b> , 76, 295	4.2	28
219	Constraints on off-shell Higgs boson production and the Higgs boson total width in ZZ -¾land ZZ -¾lafinal states with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2018</b> , 786, 223-244	4.2	28
218	Search for a Structure in the B_{s}^{0} $[H]$ Invariant Mass Spectrum with the ATLAS Experiment. <i>Physical Review Letters</i> , <b>2018</b> , 120, 202007	7.4	28
217	Search for invisible decays of the Higgs boson produced in association with a hadronically decaying vector boson in collisions at [Formula: see text] TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2015</b> , 75, 337	4.2	27
216	Measurements of gluongluon fusion and vector-boson fusion Higgs boson production cross-sections in the H -\(\frac{1}{2}\)W? -\(\alpha\)Eldecay channel in pp collisions at s=13TeV with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 789, 508	4.2 -529	27

215	Search for the Decay of the Higgs Boson to Charm Quarks with the ATLAS Experiment. <i>Physical Review Letters</i> , <b>2018</b> , 120, 211802	7.4	27
214	Observation of Electroweak Production of a Same-Sign W Boson Pair in Association with Two Jets in pp Collisions at sqrt[s]=13 TeV with the ATLAS Detector. <i>Physical Review Letters</i> , <b>2019</b> , 123, 161801	7.4	26
213	Measurement of the photon identification efficiencies with the ATLAS detector using LHC Run 2 data collected in 2015 and 2016. <i>European Physical Journal C</i> , <b>2019</b> , 79, 1	4.2	26
212	Search for heavy resonances decaying into a W or Z boson and a Higgs boson in final states with leptons and b-jets in 36 fb[] of (sqrt{s}=13) TeV pp collisions with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	26
211	Test of CP invariance in vector-boson fusion production of the Higgs boson using the method in the ditau decay channel with the ATLAS detector. <i>European Physical Journal C</i> , <b>2016</b> , 76, 658	4.2	26
<b>21</b> 0	Electron and photon energy calibration with the ATLAS detector using 2015 <b>2</b> 016 LHC proton-proton collision data. <i>Journal of Instrumentation</i> , <b>2019</b> , 14, P03017-P03017	1	25
209	Measurement of inclusive and differential cross sections in the H -∠Z * -∠Aldecay channel in pp collisions at (sqrt{s}=13) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1	5.4	25
208	Measurement of the top quark mass in the (tbar{t}rightarrow) lepton+jets channel from (sqrt{s}=8) TeV ATLAS data and combination with previous results. <i>European Physical Journal C</i> , <b>2019</b> , 79, 1	4.2	24
207	Measurement of the Soft-Drop Jet Mass in pp Collisions at sqrt[s]=13 TeV with the ATLAS Detector. <i>Physical Review Letters</i> , <b>2018</b> , 121, 092001	7.4	24
206	Search for pair production of up-type vector-like quarks and for four-top-quark events in final states with multiple b-jets with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	23
205	Search for Resonant and Nonresonant Higgs Boson Pair Production in the bb[over [] [6] [7] Pocay Channel in pp Collisions at sqrt[s]=13 TeV with the ATLAS Detector. <i>Physical Review Letters</i> , <b>2018</b> , 121, 191801	7.4	23
204	Search for Higgs boson pair production in the (upgamma upgamma boverline{b}) final state with 13 TeV pp collision data collected by the ATLAS experiment. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	23
203	Prompt and non-prompt and suppression at high transverse momentum in Pb+Pb collisions with the ATLAS experiment. <i>European Physical Journal C</i> , <b>2018</b> , 78, 762	4.2	23
202	A measurement of the calorimeter response to single hadrons and determination of the jet energy scale uncertainty using LHC Run-1 -collision data with the ATLAS detector. <i>European Physical Journal C</i> , <b>2017</b> , 77, 26	4.2	22
201	Observation of electroweak WHZ boson pair production in association with two jets in pp collisions at s=13 TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics,</i> <b>2019</b> , 793, 469-492	4.2	22
200	Search for W W/W Z resonance production in <b>q</b> q final states in pp collisions at (sqrt{s}=13) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	22
199	Search for Higgs boson decays to beyond-the-Standard-Model light bosons in four-lepton events with the ATLAS detector at (sqrt{s}=13) TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	22
198	Search for invisible Higgs boson decays in vector boson fusion at s=13TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics,</i> <b>2019</b> , 793, 499-519	4.2	21

197	Search for heavy Majorana or Dirac neutrinos and right-handed W gauge bosons in final states with two charged leptons and two jets at (sqrt{s}=13) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	21
196	Search for heavy neutral leptons in decays of W bosons produced in 13 TeV pp collisions using prompt and displaced signatures with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	21
195	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> , <b>2021</b> , 812, 135980	4.2	21
194	Search for Higgs boson pair production in the channel using collision data recorded at TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2018</b> , 78, 1007	4.2	21
193	Search for new phenomena in events with same-charge leptons and b-jets in pp collisions at ( sqrt{s}=13 ) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	21
192	Measurement of the azimuthal anisotropy of charged particles produced in = 5.02\textstyle{TeV Pb+Pb} collisions with the ATLAS detector. <i>European Physical Journal C</i> , <b>2018</b> , 78, 997	4.2	21
191	Search for doubly charged scalar bosons decaying into same-sign boson pairs with the ATLAS detector. <i>European Physical Journal C</i> , <b>2019</b> , 79, 58	4.2	20
190	Measurement of (W^{pm }Z) production cross sections and gauge boson polarisation in pp collisions at ( $sqrt{s} = 13~text {TeV}$ ) with the ATLAS detector. <i>European Physical Journal C</i> , <b>2019</b> , 79, 1	4.2	20
189	Search for new resonances in mass distributions of jet pairs using 139 fb1 of pp collisions at ( sqrt{mathrm{s}} ) = 13 TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5.4	20
188	Performance of top-quark and (varvec{W})-boson tagging with ATLAS in Run 2 of the LHC. <i>European Physical Journal C</i> , <b>2019</b> , 79, 1	4.2	19
187	Search for direct top squark pair production in final states with two leptons in TeV collisions with the ATLAS detector. <i>European Physical Journal C</i> , <b>2017</b> , 77, 898	4.2	19
186	Study of the material of the ATLAS inner detector for Run 2 of the LHC. <i>Journal of Instrumentation</i> , <b>2017</b> , 12, P12009-P12009	1	19
185	Search for High-Mass Resonances Decaying to In pp Collisions at sqrt[s]=13 TeV with the ATLAS Detector. <i>Physical Review Letters</i> , <b>2018</b> , 120, 161802	7.4	18
184	Search for long-lived neutral particles in pp collisions at ( $\{\text{sqrt}\{s\}\} = 13 \sim \{\text{text } \{\text{TeV}\}\}$ ) that decay into displaced hadronic jets in the ATLAS calorimeter. <i>European Physical Journal C</i> , <b>2019</b> , 79, 1	4.2	18
183	Searches for third-generation scalar leptoquarks in (sqrt{s}) = 13 TeV pp collisions with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	18
182	Measurement of the charge asymmetry in top-quark pair production in the lepton-plus-jets final state in collision data at [Formula: see text] with the ATLAS detector. <i>European Physical Journal C</i> , <b>2016</b> , 76, 87	4.2	18
181	Observation of Centrality-Dependent Acoplanarity for Muon Pairs Produced via Two-Photon Scattering in Pb+Pb Collisions at sqrt[s_{NN}]=5.02 TeV with the ATLAS Detector. <i>Physical Review Letters</i> , <b>2018</b> , 121, 212301	7.4	18
180	Searches for heavy ZZ and ZW resonances in the 日q and 日q final states in pp collisions at (sqrt{s}=13) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	17

## (2018-2020)

179	Search for a scalar partner of the top quark in the all-hadronic (t{bar{t}}) plus missing transverse momentum final state at (sqrt{s}=13) TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2020</b> , 80, 1	4.2	17	
178	In situ calibration of large-radius jet energy and mass in 13 TeV protonproton collisions with the ATLAS detector. <i>European Physical Journal C</i> , <b>2019</b> , 79, 1	4.2	16	
177	ATLAS data quality operations and performance for 20152018 data-taking. <i>Journal of Instrumentation</i> , <b>2020</b> , 15, P04003-P04003	1	16	
176	Search for the Standard Model Higgs boson decaying into (boverline{b}) produced in association with top quarks decaying hadronically in pp collisions at (sqrt{s}=8) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1	5.4	16	
175	Measurement of the Drell-Yan triple-differential cross section in pp collisions at (sqrt{s}=8) TeV. Journal of High Energy Physics, <b>2017</b> , 2017, 1	5.4	16	
174	The performance of the jet trigger for the ATLAS detector during 2011 data taking. <i>European Physical Journal C</i> , <b>2016</b> , 76, 526	4.2	16	
173	Measurement of fiducial and differential (W $^+$ W $^-$ ) production cross-sections at (sqrt{s}=13) TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2019</b> , 79, 1	4.2	16	
172	Measurement of flow harmonics correlations with mean transverse momentum in leadlead and protonlead collisions at $(\sqrt{s_{mathrm{NN}}}) = 5.02 - hbox {TeV}$ ) with the ATLAS detector. European Physical Journal C, <b>2019</b> , 79, 1	4.2	16	
171	Search for pair production of heavy vector-like quarks decaying into high-pT W bosons and top quarks in the lepton-plus-jets final state in pp collisions at ( sqrt{s}=13 ) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	16	
170	Searches for scalar leptoquarks and differential cross-section measurements in dileptondijet events in protonproton collisions at a centre-of-mass energy of (varvec{sqrt{s}}) = 13 TeV with the ATLAS experiment. <i>European Physical Journal C</i> , <b>2019</b> , 79, 1	4.2	15	
169	Search for Magnetic Monopoles and Stable High-Electric-Charge Objects in 13 Tev Proton-Proton Collisions with the ATLAS Detector. <i>Physical Review Letters</i> , <b>2020</b> , 124, 031802	7.4	15	
168	Dijet Resonance Search with Weak Supervision Using sqrt[s]=13 TeV pp Collisions in the ATLAS Detector. <i>Physical Review Letters</i> , <b>2020</b> , 125, 131801	7.4	15	
167	CP Properties of Higgs Boson Interactions with Top Quarks in the tt[over ] H and tH Processes Using H-Bwith the ATLAS Detector. <i>Physical Review Letters</i> , <b>2020</b> , 125, 061802	7:4	15	
166	Search for dark matter in events with a hadronically decaying vector boson and missing transverse momentum in pp collisions at (sqrt{s}=13) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	15	
165	Search for new phenomena using the invariant mass distribution of same-flavour opposite-sign dilepton pairs in events with missing transverse momentum in \( \Bigcirc \text{collisions} \) with the ATLAS detector. European Physical Journal C, <b>2018</b> , 78, 625	4.2	15	
164	Measurements of electroweak [Formula: see text] production and constraints on anomalous gauge couplings with the ATLAS detector. <i>European Physical Journal C</i> , <b>2017</b> , 77, 474	4.2	14	
163	Search for single production of vector-like quarks decaying into Wb in pp collisions at (sqrt $\{s\}$ ) = 13 TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	14	
162	Measurement of the production cross-section of a single top quark in association with a Z boson in proton proton collisions at 13 TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2018</b> , 780, 557-577	4.2	14	

161	A strategy for a general search for new phenomena using data-derived signal regions and its application within the ATLAS experiment. <i>European Physical Journal C</i> , <b>2019</b> , 79, 1	4.2	14
160	Search for the Higgs boson produced in association with a vector boson and decaying into two spin-zero particles in the H -aa -Ab channel in pp collisions at (sqrt{s}=13) TeV with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1	5.4	14
159	Combined measurement of differential and total cross sections in the H - And the H - ZZ? - Aldecay channels at s=13 TeV with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 786, 114-133	4.2	14
158	Search for top-quark decays $t \rightarrow Hq$ with 36 fb1 of pp collision data at (sqrt{s}) = 13 TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	13
157	Fluctuations of anisotropic flow in Pb+Pb collisions at ( sqrt{{mathrm{s}}_{mathrm{NN}}} ) = 5.02 TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5.4	13
156	Performance of the ATLAS muon triggers in Run 2. <i>Journal of Instrumentation</i> , <b>2020</b> , 15, P09015-P0901	51	13
155	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 (pp) collisions at (sqrt{s}=13) TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2020</b> , 80, 1	4.2	13
154	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> , <b>2021</b> , 81, 1	4.2	13
153	Measurements of top-quark pair differential and double-differential cross-sections in the (ell )+jets channel with pp collisions at (sqrt{s}=13) TeV using the ATLAS detector. <i>European Physical Journal C</i> , <b>2019</b> , 79, 1	4.2	13
152	Operation and performance of the ATLAS Tile Calorimeter in Run . European Physical Journal C, 2018, 78, 987	4.2	13
151	Measurements of W and Z boson production in pp collisions at (sqrt{s}=5.02) TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2019</b> , 79, 1	4.2	12
150	Higgs boson production cross-section measurements and their EFT interpretation in the (4ell) decay channel at (sqrt{s}=)13 TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2020</b> , 80, 1	4.2	12
149	Measurement of inclusive jet and dijet cross-sections in proton-proton collisions at (sqrt{s}=13) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	12
148	Comparison of Fragmentation Functions for Jets Dominated by Light Quarks and Gluons from pp and Pb+Pb Collisions in ATLAS. <i>Physical Review Letters</i> , <b>2019</b> , 123, 042001	7.4	12
147	Search for Higgs boson pair production in the WW(*)WW(*) decay channel using ATLAS data recorded at (sqrt{mathrm{s}}) = 13 TeV. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	12
146	Measurement of the cross-section for electroweak production of dijets in association with a Z boson in pp collisions at s=13 TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics,</i> <b>2017</b> , 775, 206-228	4.2	12
145	Measurement of the inclusive jet cross-sections in proton-proton collisions at (sqrt{s}=8) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1	5.4	12
144	Measurement of the top-quark mass in (toverline $\{t\}$ ) + 1-jet events collected with the ATLAS detector in pp collisions at (sqrt $\{s\}$ ) = 8 TeV. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	12

143	Measurement of the cross-section and charge asymmetry of W bosons produced in proton collisions at (sqrt{s}=8~text {TeV}) with the ATLAS detector. <i>European Physical Journal C</i> , <b>2019</b> , 79, 1	4.2	11	
142	Direct top-quark decay width measurement in the lepton+jets channel at with the ATLAS experiment. <i>European Physical Journal C</i> , <b>2018</b> , 78, 129	4.2	11	
141	Identification of boosted Higgs bosons decaying into b-quark pairs with the ATLAS detector at 13[\$\$text {TeV}\$\$. European Physical Journal C, 2019, 79,	4.2	11	
140	Measurement of lepton differential distributions and the top quark mass in production in collisions at ITeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2017</b> , 77, 804	4.2	11	
139	Jet energy scale and resolution measured in protonproton collisions at (sqrt{s}=13) TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2021</b> , 81, 1	4.2	11	
138	. Journal of High Energy Physics, <b>2019</b> , 2019, 1	5.4	10	
137	Search for diboson resonances in hadronic final states in 139 fbl of pp collisions at (sqrt{s}) = 13 TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	10	
136	. Journal of High Energy Physics, <b>2019</b> , 2019, 1	5.4	9	
135	Search for new non-resonant phenomena in high-mass dilepton final states with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5.4	9	
134	Measurements of the Higgs boson inclusive and differential fiducial cross sections in the 4(ell) decay channel at $(sqrt{s}) = 13 \text{ TeV}$ . European Physical Journal C, <b>2020</b> , 80, 1	4.2	9	
133	Search for supersymmetry in final states with charm jets and missing transverse momentum in 13 TeV pp collisions with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	9	
132	Probing the Quantum Interference between Singly and Doubly Resonant Top-Quark Production in pp Collisions at sqrt[s]=13 TeV with the ATLAS Detector. <i>Physical Review Letters</i> , <b>2018</b> , 121, 152002	7.4	9	
131	Measurement of jet-substructure observables in top quark, W boson and light jet production in proton-proton collisions at ( $sqrt{s}$ ) = 13 TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	8	
130	Measurement of VH, (mathrm{H}to mathrm{b}overline{mathrm{b}}) production as a function of the vector-boson transverse momentum in 13 TeV pp collisions with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	8	
129	Search for pairs of scalar leptoquarks decaying into quarks and electrons or muons in (sqrt{s}) = 13 TeV pp collisions with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5.4	8	
128	Measurement of Azimuthal Anisotropy of Muons from Charm and Bottom Hadrons in pp Collisions at sqrt[s]=13 TeV with the ATLAS Detector. <i>Physical Review Letters</i> , <b>2020</b> , 124, 082301	7.4	8	
127	Search for squarks and gluinos in final states with same-sign leptons and jets using 139 fb1 of data collected with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5.4	8	
126	Search for scalar resonances decaying into HIIn events with and without b-tagged jets produced in proton-proton collisions at (sqrt{s}=13) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> 2019, 2019, 1	5.4	8	

125	Evidence for (tbar{t}tbar{t}) production in the multilepton final state in protonproton collisions at (sqrt{s}=13) (text {TeV}) with the ATLAS detector. <i>European Physical Journal C</i> , <b>2020</b> , 80, 1	4.2	8
124	Search for light long-lived neutral particles produced in pp collisions at (sqrt{s} = 13~mathrm {TeV}) and decaying into collimated leptons or light hadrons with the ATLAS detector. <i>European Physical Journal C</i> , <b>2020</b> , 80, 1	4.2	8
123	Performance of the missing transverse momentum triggers for the ATLAS detector during Run-2 data taking. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5.4	8
122	Measurements of top-quark pair spin correlations in the (emu ) channel at (sqrt $\{s\}$ = 13) TeV using pp collisions in the ATLAS detector. <i>European Physical Journal C</i> , <b>2020</b> , 80, 1	4.2	8
121	Search for new phenomena in events with two opposite-charge leptons, jets and missing transverse momentum in pp collisions at (sqrt{mathrm{s}}) = 13 TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1	5.4	8
120	Search for heavy resonances decaying into a pair of Z bosons in the (ell $^+$ ell $^+$	4.2	8
119	Search for charged Higgs bosons decaying into a top quark and a bottom quark at (sqrt{mathrm{s}}) = 13 TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1	5.4	8
118	Search for squarks and gluinos in final states with jets and missing transverse momentum using 139 fbfl of (sqrt{s}) = 13 TeV pp collision data with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1	5.4	8
117	Prompt and non-prompt elliptic flow in Pb+Pb collisions at Tev with the ATLAS detector. <i>European Physical Journal C</i> , <b>2018</b> , 78, 784	4.2	8
116	Measurements of inclusive and differential fiducial cross-sections of (tbar{t}gamma) production in leptonic final states at (sqrt{s}=13~text {TeV}) in ATLAS. <i>European Physical Journal C</i> , <b>2019</b> , 79, 1	4.2	7
115	A measurement of material in the ATLAS tracker using secondary hadronic interactions in 7 TeVppcollisions. <i>Journal of Instrumentation</i> , <b>2016</b> , 11, P11020-P11020	1	7
114	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> , <b>2020</b> , 2020, 1	5.4	7
113	Transverse momentum and process dependent azimuthal anisotropies in (sqrt{s_{mathrm {NN}}}=8.16) TeV p+Pb collisions with the ATLAS detector. <i>European Physical Journal C</i> , <b>2020</b> , 80, 1	4.2	7
112	Search for new phenomena in high-mass final states with a photon and a jet from collisions at = 13 TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2018</b> , 78, 102	4.2	7
111	Measurement of differential cross sections and W+/Wlross-section ratios for W boson production in association with jets at (sqrt{s}=8) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	7
110	Search for large missing transverse momentum in association with one top-quark in proton-proton collisions at (sqrt $\{s\}$ ) = 13 TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	7
109	Search for direct top squark pair production in events with a Higgs or Z boson, and missing transverse momentum in (sqrt{s}=13) TeV pp collisions with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1	5.4	7
108	Performance of the ATLAS Transition Radiation Tracker in Run 1 of the LHC: tracker properties. Journal of Instrumentation, <b>2017</b> , 12, P05002-P05002	1	7

107	Measurement of the transverse momentum distribution of DrellMan lepton pairs in protonproton collisions at (sqrt{s}=13,)TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2020</b> , 80, 1	4.2	7
106	Search for type-III seesaw heavy leptons in dilepton final states in pp collisions at ( $sqrt{s} = 13,{text TeV}$ ) with the ATLAS detector. <i>European Physical Journal C</i> , <b>2021</b> , 81, 1	4.2	7
105	Search for a heavy Higgs boson decaying into a Z boson and another heavy Higgs boson in the (ell ell bb) and (ell ell WW) final states in pp collisions at (sqrt{s}=13) (text {TeV}) with the ATLAS detector. European Physical Journal C, 2021, 81, 1	4.2	7
104	Measurement of (W^pm) boson production in Pb+Pb collisions at (sqrt{s_{mathrm{NN}}} = $5.02$ ~text {Te}text {V}) with the ATLAS detector. European Physical Journal C, <b>2019</b> , 79, 1	4.2	7
103	Search for bottom-squark pair production with the ATLAS detector in final states containing Higgs bosons, b-jets and missing transverse momentum. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	7
102	Measurements of WH and ZH production in the (H rightarrow bbar{b}) decay channel in pp collisions at (13,text {Te}text {V}) with the ATLAS detector. <i>European Physical Journal C</i> , <b>2021</b> , 81, 1	4.2	7
101	Search for Higgs Boson Decays into a Z Boson and a Light Hadronically Decaying Resonance Using 13 TeV pp Collision Data from the ATLAS Detector. <i>Physical Review Letters</i> , <b>2020</b> , 125, 221802	7.4	6
100	Search for (toverline $\{t\}$ ) resonances in fully hadronic final states in pp collisions at (sqrt $\{s\}$ ) = 13 TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5.4	6
99	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. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1	5.4	6
98	Search for new phenomena in final states with b-jets and missing transverse momentum in ( sqrt{mathrm{s}}) = 13 TeV pp collisions with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1	5.4	6
97	Search for pair production of third-generation scalar leptoquarks decaying into a top quark and a Elepton in pp collisions at (sqrt{s}) = 13 TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1	5.4	6
96	Measurement of the (Zgamma to nu overline{nu}gamma) production cross section in pp collisions at (sqrt{s}=13) TeV with the ATLAS detector and limits on anomalous triple gauge-boson couplings. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	6
95	Search for exclusive Higgs and Z boson decays to ?land liwith the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	6
94	Combinations of single-top-quark production cross-section measurements and  fLVVtb  determinations at (sqrt{s}) = 7 and 8 TeV with the ATLAS and CMS experiments. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	5
93	Search for the Production of a Long-Lived Neutral Particle Decaying within the ATLAS Hadronic Calorimeter in Association with a Z Boson from pp Collisions at sqrt[s]=13 TeV. <i>Physical Review Letters</i> , <b>2019</b> , 122, 151801	7:4	5
92	Measurement of the ratio of cross sections for inclusive isolated-photon production in pp collisions at ( $sqrt{s}$ ) = 13 and 8 TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	5
91	Measurement of differential cross-sections of a single top quark produced in association with a boson at with ATLAS. <i>European Physical Journal C</i> , <b>2018</b> , 78, 186	4.2	5
90	Observation and Measurement of Forward Proton Scattering in Association with Lepton Pairs Produced via the Photon Fusion Mechanism at ATLAS. <i>Physical Review Letters</i> , <b>2020</b> , 125, 261801	7.4	5

89	Evidence for electroweak production of two jets in association with a Zlpair in pp collisions at s=13 TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2020</b> , 803, 135341	4.2	5
88	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. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5.4	5
87	Search for the HH - $\frac{1}{2}$ boverline $\frac{b}{b}$ process via vector-boson fusion production using proton-proton collisions at (sqrt $\frac{1}{2}$ ) = 13 TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5.4	5
86	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. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5.4	5
85	Measurement of light-by-light scattering and search for axion-like particles with 2.2 nb1 of Pb+Pb data with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1	5.4	5
84	Search for pair production of scalar leptoquarks decaying into first- or second-generation leptons and top quarks in protonproton collisions at (sqrt{s}) = 13 TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2021</b> , 81, 1	4.2	5
83	Differential cross-section measurements for the electroweak production of dijets in association with a Z boson in proton <b>p</b> roton collisions at ATLAS. <i>European Physical Journal C</i> , <b>2021</b> , 81, 1	4.2	5
82	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> , <b>2021</b> , 2021, 1	5.4	5
81	Measurement of colour flow using jet-pull observables in events with the ATLAS experiment at. <i>European Physical Journal C</i> , <b>2018</b> , 78, 847	4.2	5
80	Measurement of the inclusive and fiducial production cross-sections in the lepton+jets channel in collisions at with the ATLAS detector. <i>European Physical Journal C</i> , <b>2018</b> , 78, 487	4.2	5
79	Measurement of the Lund Jet Plane Using Charged Particles in 13 TeV Proton-Proton Collisions with the ATLAS Detector. <i>Physical Review Letters</i> , <b>2020</b> , 124, 222002	7.4	4
78	Combination of inclusive and differential (mathrm{t}overline{mathrm{t}}) charge asymmetry measurements using ATLAS and CMS data at (sqrt{s}=7) and 8 TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	4
77	Search for heavy diboson resonances in semileptonic final states in pp collisions at (sqrt{s}=13) TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2020</b> , 80, 1	4.2	4
76	Alignment of the ATLAS Inner Detector in Run 2. European Physical Journal C, 2020, 80, 1	4.2	4
75	Measurement of J/ $\Phi$ roduction in association with a W $\theta$ boson with pp data at 8 TeV. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5.4	4
74	Search for charged-lepton-flavour violation in Z-boson decays with the ATLAS detector. <i>Nature Physics</i> , <b>2021</b> , 17, 819-825	16.2	4
73	Measurement of the inclusive cross-section for the production of jets in association with a Z boson in protonproton collisions at 8 TeV using the ATLAS detector. <i>European Physical Journal C</i> , <b>2019</b> , 79, 1	4.2	4
72	Measurements of differential cross sections of top quark pair production in association with jets in pp collisions at (sqrt{s}=13) TeV using the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	4

71	Search for dark matter produced in association with a single top quark in (sqrt{s}=13) TeV (pp) collisions with the ATLAS detector. <i>European Physical Journal C</i> , <b>2021</b> , 81, 1	4.2	4
70	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> , <b>2020</b> , 2020, 1	5.4	3
69	Measurement of long-range two-particle azimuthal correlations in Z-boson tagged pp collisions at (sqrt{s}=8) and 13 TeV. <i>European Physical Journal C</i> , <b>2020</b> , 80, 1	4.2	3
68	Measurement of polarisation in decays in proton-proton collisions at TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2018</b> , 78, 163	4.2	3
67	Search for excited electrons singly produced in proton proton collisions at $\$\$qrt\{s\} \sim -13 \times text \{Te\}text \{V\}\$$ with the ATLAS experiment at the LHC. <i>European Physical Journal C</i> , <b>2019</b> , 79,	4.2	3
66	Search for Heavy Resonances Decaying into a Photon and a Hadronically Decaying Higgs Boson in pp Collisions at sqrt[s]=13 TeV with the ATLAS Detector. <i>Physical Review Letters</i> , <b>2020</b> , 125, 251802	7.4	3
65	Measurement of $\$K_S^0$ and $\$Lambda^0$ production in $\$t bar\{t\}$ dileptonic events in pp collisions at $\$sqrt\{s\} = \$$ 7 TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2019</b> , 79, 1	4.2	3
64	Determination of jet calibration and energy resolution in proton $\beta$ roton collisions at (sqrt{s} = 8~hbox {TeV}) using the ATLAS detector. <i>European Physical Journal C</i> , <b>2020</b> , 80, 1	4.2	3
63	Reconstruction and identification of boosted di-systems in a search for Higgs boson pairs using 13 TeV proton-proton collision data in ATLAS. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5.4	3
62	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{mathrm{s}}) = 13 TeV.  Journal of High Energy Physics, 2021, 2021, 1	5.4	3
61	Measurement of hadronic event shapes in high-pT multijet final states at ( $sqrt{s}$ ) = 13 TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1	5.4	3
60	Medium-Induced Modification of Z-Tagged Charged Particle Yields in Pb+Pb Collisions at 5.02lTeV with the ATLAS Detector. <i>Physical Review Letters</i> , <b>2021</b> , 126, 072301	7.4	3
59	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. <i>European Physical Journal C</i> , <b>2019</b> , 79, 1	4.2	2
58	Performance of the upgraded PreProcessor of the ATLAS Level-1 Calorimeter Trigger. <i>Journal of Instrumentation</i> , <b>2020</b> , 15, P11016-P11016	1	2
57	Measurement of the Z(-知即roduction cross-section in pp collisions at (sqrt $\{s\}$ ) = 13 TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5.4	2
56	Search for R-parity-violating supersymmetry in a final state containing leptons and many jets with the ATLAS experiment using (sqrt{s} = 13hbox { TeV}) protonproton collision data. <i>European Physical Journal C</i> , <b>2021</b> , 81, 1	4.2	2
55	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. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1	5.4	2
54	Measurement of the inclusive isolated-photon cross section in pp collisions at (sqrt{s}) = 13 TeV using 36 fbfl of ATLAS data. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	2

53	Measurements of inclusive and differential cross-sections of combined (toverline{t}gamma) and tW[production in the elchannel at 13 TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5.4	2
52	Measurement of isolated-photon plus two-jet production in pp collisions at (sqrt $\{s\}$ ) = 13 TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5.4	2
51	Search for Dark Matter Produced in Association with a Dark Higgs Boson Decaying into W^{H}W^{?} or ZZ in Fully Hadronic Final States from sqrt[s]=13 TeV pp Collisions Recorded with the ATLAS Detector. <i>Physical Review Letters</i> , <b>2021</b> , 126, 121802	7.4	2
50	Longitudinal Flow Decorrelations in Xe+Xe Collisions at sqrt[s_{NN}]=5.44 TeV with the ATLAS Detector. <i>Physical Review Letters</i> , <b>2021</b> , 126, 122301	7.4	2
49	Optimisation of large-radius jet reconstruction for the ATLAS detector in 13 TeV protonproton collisions. <i>European Physical Journal C</i> , <b>2021</b> , 81, 1	4.2	2
48	Search for Displaced Leptons in sqrt[s]=13 TeV pp Collisions with the ATLAS Detector. <i>Physical Review Letters</i> , <b>2021</b> , 127, 051802	7.4	2
47	Two-particle azimuthal correlations in photonuclear ultraperipheral Pb+Pb collisions at 5.02 TeV with ATLAS. <i>Physical Review C</i> , <b>2021</b> , 104,	2.7	2
46	Search for supersymmetry in events with four or more charged leptons in 139 fb <b>1</b> of (sqrt{s}) = 13 TeV pp collisions with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1	5.4	2
45	Measurement of ZZ production in the Ifinal state with the ATLAS detector in pp collisions at ( $sqrt{s}$ ) = 13 TeV. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	2
44	Measurement of (W^{pm })-boson and Z-boson production cross-sections in pp collisions at (sqrt{s}=2.76) TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2019</b> , 79, 1	4.2	2
43	Exclusive dimuon production in ultraperipheral Pb+Pb collisions at sNN=5.02TeV with ATLAS. <i>Physical Review C</i> , <b>2021</b> , 104,	2.7	2
42	Measurements of top-quark pair single- and double-differential cross-sections in the all-hadronic channel in pp collisions at (sqrt{mathrm{s}}) = 13 TeV using the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1	5.4	2
41	Operation and performance of the ATLAS semiconductor tracker in LHC Run[2. <i>Journal of Instrumentation</i> , <b>2022</b> , 17, P01013	1	1
40	Search for doubly charged Higgs boson production in multi-lepton final states with the ATLAS detector using protonproton collisions at (sqrt{s}=13,text {TeV}) <b>2018</b> , 78, 1		1
39	Search for top squarks in events with a Higgs or Z boson using 139 fb( $^{-1}$ ) of pp collision data at (sqrt{s}=13) TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2020</b> , 80, 1	4.2	1
38	Search for heavy resonances decaying into a W or Z boson and a Higgs boson in final states with leptons and b-jets in 36 fb1 of (sqrt{s}=13) TeV pp collisions with the ATLAS detector <b>2018</b> , 2018, 1		1
37	Measurement of differential cross sections for single diffractive dissociation in ( $sqrt{s}$ ) = 8 TeV pp collisions using the ATLAS ALFA spectrometer. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5.4	1
36	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. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5.4	1

35	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> , <b>2021</b> , 2021, 1	5.4	1
34	Measurement of the CP-violating phase $\$$ phi_s $\$$ in $\$$ B_{s}^{0} rightarrow J/psi phi $\$$ decays in ATLAS at 13 TeV. European Physical Journal C, <b>2021</b> , 81,	4.2	1
33	Test of the universality of Band Depton couplings in W-boson decays with the ATLAS detector. <i>Nature Physics</i> , <b>2021</b> , 17, 813-818	16.2	1
32	Determination of the parton distribution functions of the proton from ATLAS measurements of differential W∃ and Z boson production in association with jets. <i>Journal of High Energy Physics</i> , <b>2021</b> , 1	5.4	1
31	A search for the decays of stopped long-lived particles at ( $sqrt{mathrm{s}}$ ) = 13 TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1	5.4	1
30	Performance of the ATLAS RPC detector and Level-1 muon barrel trigger at (b)=13 TeV. <i>Journal of Instrumentation</i> , <b>2021</b> , 16, P07029	1	1
29	Measurement of single top-quark production in association with a W boson in the single-lepton channel at (sqrt{s} = 8,text {TeV}) with the ATLAS detector. <i>European Physical Journal C</i> , <b>2021</b> , 81, 1	4.2	1
28	Measurements of sensor radiation damage in the ATLAS inner detector using leakage currents. Journal of Instrumentation, <b>2021</b> , 16, P08025	1	1
27	Measurements of the inclusive and differential production cross sections of a top-quarkIntiquark pair in association with a Z boson at (sqrt{s} = 13) TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2021</b> , 81, 1	4.2	1
26	Search for New Phenomena in Final States with Two Leptons and One or No b-Tagged Jets at sqrt[s]=13 TeV Using the ATLAS Detector. <i>Physical Review Letters</i> , <b>2021</b> , 127, 141801	7.4	1
25	Search for phenomena beyond the Standard Model in events with large b-jet multiplicity using the ATLAS detector at the LHC. <i>European Physical Journal C</i> , <b>2021</b> , 81, 1	4.2	1
24	Search for charginofleutralino pair production in final states with three leptons and missing transverse momentum in \$\$sqrt{s} = 13\$\$[TeV pp collisions with the ATLAS detector. <i>European Physical Journal C</i> , <b>2021</b> , 81, 1	4.2	1
23	Configuration and performance of the ATLAS b-jet triggers in Run 2. <i>European Physical Journal C</i> , <b>2021</b> , 81, 1	4.2	1
22	Determination of the parton distribution functions of the proton using diverse ATLAS data from pp collisions at $\$$ sqrt $\{s\}$ = $7$ \$\$, 8 and 13 $\Box$ TeV. <i>European Physical Journal C</i> , <b>2022</b> , 82, 1	4.2	1
21	Emulating the impact of additional proton proton interactions in the ATLAS simulation by presampling sets of inelastic Monte Carlo events. <i>Computing and Software for Big Science</i> , <b>2022</b> , 6, 1	6	О
20	Performance of the ATLAS Level-1 topological trigger in Run (2). European Physical Journal C, <b>2022</b> , 82, 1	4.2	O
19	Search for exotic decays of the Higgs boson into b\$\$ overline{b} \$\$ and missing transverse momentum in pp collisions at \$\$ sqrt{s} \$\$ = 13 TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2022</b> , 2022, 1	5.4	О
18	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[\$\$text {TeV}\$\$ with the ATLAS detector. <i>European Physical Journal C</i> , <b>2022</b> , 82, 1	4.2	O

17	Measurement of the t(overline{t})t(overline{t}) production cross section in pp collisions at (sqrt{s}) = 13 TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1	5.4	O
16	Measurements of W+W $\blacksquare$ $\blacksquare$ jet production cross-sections in pp collisions at (sqrt{s}) = 13 TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1	5.4	O
15	Measurements of Higgs bosons decaying to bottom quarks from vector boson fusion production with the ATLAS experiment at (sqrt{s}=13,text {TeV}). European Physical Journal C, 2021, 81, 1	4.2	0
14	Measurements of differential cross-sections in four-lepton events in 13 TeV proton-proton collisions with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1	5.4	O
13	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. <i>European Physical Journal C</i> , <b>2021</b> , 81, 1	4.2	0
12	The ATLAS Fast TracKer system. <i>Journal of Instrumentation</i> , <b>2021</b> , 16, P07006	1	О
11	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. <i>Journal of High Energy Physics</i> , <b>2022</b> , 2022, 1	5.4	0
10	AtlFast3: The Next Generation of Fast Simulation in ATLAS. <i>Computing and Software for Big Science</i> , <b>2022</b> , 6, 1	6	O
9	Measurement of the energy response of the ATLASItalorimeter to chargedIpions from \$\$W^{pm }rightarrow tau ^{pm }(rightarrow pi ^{pm }nu _{tau })nu _{tau }\$\$ events in RunI2 data. <i>European Physical Journal C</i> , <b>2022</b> , 82, 1	4.2	O
8	Search for associated production of a Z boson with an invisibly decaying Higgs boson or dark matter candidates at s=13 TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2022</b> , 137066	4.2	O
7	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. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1	5.4	0
6	Measurement of the production cross section of pairs of isolated photons in pp collisions at 13 TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1	5.4	O
5	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. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1	5.4	О
4	Search for Lepton-Flavor Violation in Z-Boson Decays with Leptons with the ATLAS Detector <i>Physical Review Letters</i> , <b>2021</b> , 127, 271801	7.4	O
3	Measurement of b-quark fragmentation properties in jets using the decay $BH \rightarrow J/KH$ in pp collisions at \$\$ sqrt{s} \$\$ = 13 TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1	5.4	0
2	The ATLAS inner detector trigger performance in pp collisions at 13 TeV during LHC Run 2. <i>European Physical Journal C</i> , <b>2022</b> , 82, 1	4.2	
1	A search for an unexpected asymmetry in the production of e+Dand ell pairs in proton proton collisions recorded by the ATLAS detector at s=13 TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2022</b> , 137106	4.2	