## Hiroaki Hibi

## List of Publications by Year in Descending Order

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

61 245 8 11 g-index

70 640 4.8 -1.73 ext. papers ext. citations avg, IF L-index

#	Paper	IF	Citations
61	Performance of the ATLAS Level-1 topological trigger in RunD. <i>European Physical Journal C</i> , <b>2022</b> , 82, 1	4.2	O
60	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	0
59	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. European Physical Journal C, 2022, 82, 1	4.2	O
58	Search for Higgs bosons decaying into new spin-0 or spin-1 particles in four-lepton final states with the ATLAS detector with 139 fb1 of pp collision data at \$\$ sqrt{s} \$\$ = 13 TeV. <i>Journal of High Energy Physics</i> , <b>2022</b> , 2022, 1	5.4	О
57	AtlFast3: The Next Generation of Fast Simulation in ATLAS. <i>Computing and Software for Big Science</i> , <b>2022</b> , 6, 1	6	O
56	Measurement of the energy response of the ATLASIcalorimeter to chargedipions from \$\$W^{pm }rightarrow tau ^{pm }(rightarrow pi ^{pm }nu _{tau })nu _{tau }\$\$ events in Run \(\mathbb{Z}\) data. European Physical Journal C, 2022, 82, 1	4.2	О
55	The ATLAS inner detector trigger performance in pp collisions at 13 TeV during LHC Run 2. European Physical Journal C, 2022, 82, 1	4.2	
54	Determination of the parton distribution functions of the proton using diverse ATLAS data from pp collisions at $\$\$qrt\{s\} = 7\$\$$ , 8 and 13 $TeV$ . European Physical Journal C, <b>2022</b> , 82, 1	4.2	1
53	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
52	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
51	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
50	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
49	Measurement of light-by-light scattering and search for axion-like particles with 2.2 nb <b>1</b> of Pb+Pb data with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1	5.4	5
48	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
47	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
46	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
45	Search for pair production of scalar leptoquarks decaying into first- or second-generation leptons and top quarks in protonBroton collisions at (sqrt{s}) = 13 TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2021</b> , 81, 1	4.2	5

44	Optimisation of large-radius jet reconstruction for the ATLAS detector in 13 TeV proton proton collisions. <i>European Physical Journal C</i> , <b>2021</b> , 81, 1	4.2	2
43	Search for heavy resonances decaying into a pair of Z bosons in the (ell $^+$ ell $^+$ ell $^+$ ell $^+$ ) and (ell $^+$ ell $^+$ ell $^+$ ) final states using 139 (mathrm {fb} $^{-}$ 1) of proton $\overline{p}$ roton collisions at (sqrt{s} = 13,)TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2021</b> , 81, 1	4.2	8
42	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
41	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
40	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
39	Measurements of W+W $\blacksquare$ If 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	О
38	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
37	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	O
36	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
35	Search for supersymmetry in events with four or more charged leptons in 139 fbfl 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
34	Determination of the parton distribution functions of the proton from ATLAS measurements of differential W\(\textrm{\textra}\) and Z boson production in association with jets. <i>Journal of High Energy Physics</i> , <b>2021</b> , 1	5.4	1
33	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
32	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
31	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
30	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
29	Search for squarks and gluinos in final states with jets and missing transverse momentum using 139 fbd 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
28	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
27	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

26	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
25	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	O
24	Jet energy scale and resolution measured in protonBroton collisions at (sqrt{s}=13) TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2021</b> , 81, 1	4.2	11
23	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
22	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
21	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
20	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
19	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	O
18	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
17	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
16	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
15	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
14	Measurement of b-quark fragmentation properties in jets using the decay $BH - \frac{1}{KH}$ 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	О
13	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
12	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
11	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
10	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
9	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

## LIST OF PUBLICATIONS

8	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	
7	Alignment of the ATLAS Inner Detector in Run 2. European Physical Journal C, 2020, 80, 1	4.2	4	
6	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	
5	Reconstruction and identification of boosted di-Bystems 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	
4	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	
3	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	
2	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	
1	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	