

# Kingman Cheung

## List of Publications by Year in descending order

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Version: 2024-02-01

424  
papers

12,465  
citations

26610

56  
h-index

56687

83  
g-index

440  
all docs

440  
docs citations

440  
times ranked

8832  
citing authors

#	ARTICLE	IF	CITATIONS
1	Z0 decay into charmonium via charm quark fragmentation. Physical Review D, 1993, 48, 4230-4235.	1.6	202
2	Collider Signals of Unparticle Physics. Physical Review Letters, 2007, 99, 051803.	2.9	189
3	Performance of missing transverse momentum reconstruction with the ATLAS detector using proton-proton collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2018, 78, 903.	1.4	181
4	Search for new high-mass phenomena in the dilepton final state using 36 fb <sup>-1</sup> of proton-proton collision data at $\sqrt{s}=13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1.	1.6	168
5	Strongly interacting WW system: Gold-plated modes. Physical Review D, 1994, 49, 1246-1264.	1.6	158
6	QCD fragmentation functions for B <sub>c</sub> and B <sub>c</sub> <sup>*</sup> production. Physical Review D, 1993, 48, R5049-R5054.	1.6	157
7	Higgs bosons: Intermediate mass range at e <sup>+</sup> e <sup>-</sup> colliders. Physical Review D, 1994, 49, 79-90.	1.6	151
8	Search for dark matter and other new phenomena in events with an energetic jet and large missing transverse momentum using the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1.	1.6	136
9	Heavy gluino as the lightest supersymmetric particle. Physical Review D, 1999, 59, .	1.6	134
10	Search for doubly charged Higgs boson production in multi-lepton final states with the ATLAS detector using proton-proton collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2018, 78, 199.	1.4	132
11	ATLAS b-jet identification performance and efficiency measurement with tt events in pp collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2019, 79, 1.	1.4	130
12	Perturbative QCD fragmentation functions as a model for heavy-quark fragmentation. Physical Review D, 1995, 51, 4819-4829.	1.6	129
13	Top quark forward-backward asymmetry. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2009, 682, 287-290.	1.5	128
14	Search for electroweak production of supersymmetric particles in final states with two or three leptons at $\sqrt{s}=13$ TeV with the ATLAS detector. European Physical Journal C, 2018, 78, 995.	1.4	125
15	Search for electroweak production of charginos and sleptons decaying into final states with two leptons and missing transverse momentum in $\sqrt{s}=13$ TeV pp collisions using the ATLAS detector. European Physical Journal C, 2020, 80, 1.	1.4	124
16	CERN LHC analysis of the strongly interacting WW system: Gold-plated modes. Physical Review D, 1995, 52, 3878-3889.	1.6	117
17	Collider phenomenology of unparticle physics. Physical Review D, 2007, 76, .	1.6	117
18	Higgs precision (Higgcision) era begins. Journal of High Energy Physics, 2013, 2013, 1.	1.6	117

#	ARTICLE	IF	CITATIONS
19	Search for additional heavy neutral Higgs and gauge bosons in the ditau final state produced in 36 fb <sup>-1</sup> of pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1.	1.6	116
20	Search for heavy resonances decaying into WW in the $e^+e^- \rightarrow \mu^+\mu^- \gamma \gamma$ final state in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. European Physical Journal C, 2018, 78, 24.	1.4	108
21	Muon anomalous magnetic moment and leptoquark solutions. Physical Review D, 2001, 64, .	1.6	106
22	Search for heavy ZZ resonances in the $e^+e^- \rightarrow \mu^+\mu^- \gamma \gamma$ final states using proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. European Physical Journal C, 2018, 78, 293.	1.4	101
23	Strong WW+scattering signals at supercolliders. Physical Review D, 1990, 42, 3052-3077.	1.6	96
24	Global constraints on effective dark matter interactions: relic density, direct detection, indirect detection, and collider. Journal of Cosmology and Astroparticle Physics, 2012, 2012, 001-001.	1.9	96
25	Hidden fermion as milli-charged dark matter in Stueckelberg Z <sup>2</sup> model. Journal of High Energy Physics, 2007, 2007, 120-120.	1.6	95
26	Performance of electron and photon triggers in ATLAS during LHC Run 2. European Physical Journal C, 2020, 80, 1.	1.4	93
27	Phenomenology of a TeV right-handed neutrino and the dark matter model. Physical Review D, 2004, 69, .	1.6	86
28	Phenomenology of the radion in the Randall-Sundrum scenario. Physical Review D, 2001, 63, .	1.6	84
29	Could the Excess Seen at 124-126 GeV Be due to the Randall-Sundrum Radion?. Physical Review Letters, 2012, 108, 141602.	2.9	84
30	Black Hole Production and Large Extra Dimensions. Physical Review Letters, 2002, 88, 221602.	2.9	82
31	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.	1.4	82
32	Search for heavy particles decaying into top-quark pairs using lepton-plus-jets events in proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. European Physical Journal C, 2018, 78, 565.	1.4	79
33	Electron reconstruction and identification in the ATLAS experiment using the 2015 and 2016 LHC proton-proton collision data at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2019, 79, 1.	1.4	77
34	Muon anomalous magnetic moment, two-Higgs-doublet model, and supersymmetry. Physical Review D, 2001, 64, .	1.6	76
35	Angular analysis of $B^0 \rightarrow \mu^+\mu^- \gamma \gamma$ decays in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1.	1.6	76
36	Phase effect of a general two-Higgs-doublet model in $\hat{b}^2 \hat{s}^3$ . Physical Review D, 1999, 59, .	1.6	72

#	ARTICLE	IF	CITATIONS
37	Global study of the simplest scalar phantom dark matter model. Journal of Cosmology and Astroparticle Physics, 2012, 2012, 042-042. Constraints on flavor-changing $Z$ models by $B \rightarrow Bs$ mixing, $Z \rightarrow \mu\mu$ colliders. Physical Review D, 1999, 60, .	1.9	72
38	Role of $Z$ in Intermediate-Mass Higgs Boson Searches at the Large Hadron Collider. Physical Review Letters, 2007, 99, 031801.	1.5	71
39	Search for new resonances in mass distributions of jet pairs using 139 fb <sup>-1</sup> of pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2020, 2020, 1.	1.6	68
42	Search for long-lived charginos based on a disappearing-track signature in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1.	1.6	67
43	Color-Octet Quarkonium Production at the Z Pole. Physical Review Letters, 1996, 76, 877-880.	2.9	66
44	A search for pair-produced resonances in four-jet final states at $\sqrt{s} = 13$ TeV with the ATLAS detector. European Physical Journal C, 2018, 78, 250.	1.4	66
45	Evidence for the $H \rightarrow b\bar{b}$ decay with the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1.	1.6	64
46	Jet energy scale and resolution measured in proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. European Physical Journal C, 2021, 81, 1.	1.4	64
47	B-meson production at hadron colliders by heavy quark fragmentation. Physical Review Letters, 1993, 71, 3413-3416.	2.9	62
48	Prompt and non-prompt $J/\psi$ and $\psi(2S)$ suppression at high transverse momentum in $5.02 \text{ TeV Pb+Pb}$ collisions with the ATLAS experiment. European Physical Journal C, 2018, 78, 762.	1.4	61
49	Search for doubly charged scalar bosons decaying into same-sign W boson pairs with the ATLAS detector. European Physical Journal C, 2019, 79, 58.	1.4	61
50	Search for dark matter produced in association with bottom or top quarks in $\sqrt{s} = 13$ TeV pp collisions with the ATLAS detector. European Physical Journal C, 2018, 78, 18.	1.4	60
51	Comparative study of the benefits of forward jet tagging in heavy-Higgs-boson production at the Superconducting Super Collider. Physical Review D, 1991, 44, 1426-1437.	1.6	59
52	Single-forward-jet tagging and central-jet vetoing to identify the leptonic WW decay mode of a heavy Higgs boson. Physical Review D, 1991, 44, 2701-2716.	1.6	59
53	Single top quark production in flavor-changing $Z$ models. Physical Review D, 2006, 73, .	1.6	59
54	Measurement of longitudinal flow decorrelations in Pb+Pb collisions at $\sqrt{s_{NN}} = 2.76$ and 5.0. European Physical Journal C, 2018, 78, 142.	1.4	59

#	ARTICLE	IF	CITATIONS
55	Search for charged Higgs bosons decaying via $H_{\pm} \rightarrow \tau^{\pm} \nu_{\tau}$ , in the $\tau^{\pm}$ , jets and $\tau^{\pm}$ , lepton final states with 36 fb $^{-1}$ of pp collision data recorded at $\sqrt{s}=13$ TeV with the ATLAS experiment. Journal of High Energy Physics, 2018, 2018, 1.	1.6	59
56	Associated production of intermediate-mass Higgs or Z boson with $t\bar{t}$ pair in $\tau^{\pm}\tau^{\mp}$ collisions. Physical Review D, 1993, 47, 3750-3756.	1.6	57
57	Can the two-Higgs-doublet model survive the constraint from the muon anomalous magnetic moment, as suggested?. Physical Review D, 2003, 68, .	1.6	56
58	Search for charged Higgs bosons decaying into top and bottom quarks at $\sqrt{s}=13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1.	1.6	56
59	Search for pair production of Higgs bosons in the $b\bar{b}$ final state using proton-proton collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2019, 2019, 1.	1.6	55
60	Baryonic $Z\epsilon^2$ connection of LEP Rb,c data with Tevatron events. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1996, 381, 226-236.	1.5	54
61	Confronting Higgs production with electric dipole moments. Journal of High Energy Physics, 2014, 2014, 1.	1.6	53
62	Search for Higgs boson pair production in the $\gamma\gamma WW^*WW^*$ channel using pp collision data recorded at $\sqrt{s}=13$ TeV with the ATLAS detector. European Physical Journal C, 2018, 78, 1007.	1.4	53
63	Probing the chromoelectric and chromomagnetic dipole moments of the top quark at hadronic colliders. Physical Review D, 1996, 53, 3604-3615.	1.6	52
64	Kaluza-Klein states of the standard model gauge bosons: Constraints from high energy experiments. Physical Review D, 2002, 65, .	1.6	52
65	Novel collider signatures for Little Higgs dark matter models. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2007, 644, 158-164.	1.5	52
66	Search for the direct production of charginos and neutralinos in final states with tau leptons in $\sqrt{s} = 13, \text{TeV}$ pp collisions with the ATLAS detector. European Physical Journal C, 2018, 78, 154.	1.4	52
67	The Importance of Quantum Pressure of Fuzzy Dark Matter on Ly $\alpha$ Forest. Astrophysical Journal, 2018, 863, 73.	1.6	52
68	Measurement of the azimuthal anisotropy of charged particles produced in $\sqrt{s}_{\text{ext}} = 5.02$ TeV Pb+Pb collisions with the ATLAS detector. European Physical Journal C, 2018, 78, 997.	1.4	51
69	Probing nonstandard top-quark couplings using spin correlation. Physical Review D, 1997, 55, 4430-4434.	1.6	50
70	Search for direct top squark pair production in final states with two leptons in $\sqrt{s} = 13$ TeV pp collisions with the ATLAS detector. European Physical Journal C, 2017, 77, 898.	1.4	50
71	Search for a new heavy gauge-boson resonance decaying into a lepton and missing transverse momentum in 36 fb $^{-1}$ of pp collisions at. European Physical Journal C, 2018, 78, 401.	1.4	50
72	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. Journal of High Energy Physics, 2019, 2019, 1.	1.6	50

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73	Drell-Yan and diphoton production at hadron colliders and low scale gravity model. Physical Review D, 2000, 62, .	1.6	49
74	Constraints on mediator-based dark matter and scalar dark energy models using $\sqrt{s} = 13$ TeV pp collision data collected by the ATLAS detector. Journal of High Energy Physics, 2019, 2019, 1.	1.6	49
75	Z-boson decays to heavy quarkonium. Physical Review D, 1990, 41, 1541-1546.	1.6	48
76	Top quark forward-backward asymmetry in the large invariant mass region. Physical Review D, 2011, 83, .	1.6	48
77	Search for top-squark pair production in final states with one lepton, jets, and missing transverse momentum using $36 \text{ fb}^{-1}$ of $\sqrt{s} = 13$ TeV pp collision data with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1.	1.6	48
78	Diphoton signals for low scale gravity in extra dimensions. Physical Review D, 1999, 61, .	1.6	47
79	An exploratory study of Higgs-boson pair production. Journal of High Energy Physics, 2015, 2015, 1.	1.6	47
80	Measurement of the top quark mass in the $t \rightarrow t \bar{t} \hat{t}$ . European Physical Journal C, 2019, 79, 1.	1.4	47
81	Higgs precision analysis updates 2014. Physical Review D, 2014, 90, .	1.6	46
82	Interpreting the $750 \text{ GeV}$ diphoton resonance using photon jets in hidden-valley-like models. Physical Review D, 2016, 93, .	1.6	46
83	Measurement of the Higgs boson coupling properties in the $H \rightarrow ZZ \rightarrow 4\mu$ decay channel at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1.	1.6	46
84	Measurement of the photon identification efficiencies with the ATLAS detector using LHC Run 2 data collected in 2015 and 2016. European Physical Journal C, 2019, 79, 1.	1.4	46
85	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.	1.6	46
86	Split supersymmetry, stable gluino, and gluinonium. Physical Review D, 2005, 71, .	1.6	45
87	Search for a scalar partner of the top quark in the jets plus missing transverse momentum final state at $s = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1.	1.6	45
88	Ultralight Axion Dark Matter and Its Impact on Dark Halo Structure in N-body Simulations. Astrophysical Journal, 2018, 853, 51.	1.6	45
89	Baryonic Explanation for the CDFWjjExcess. Physical Review Letters, 2011, 106, 211803.	2.9	44
90	Higgs precision in the two-Higgs doublet models. Journal of High Energy Physics, 2014, 2014, 1.	1.6	43

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91	Constraints on electron-quark contact interactions and implications to models of leptoquarks and extra Z bosons. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2001, 517, 167-176.	1.5	42
92	Black hole, string ball, and p-brane production at hadronic supercolliders. Physical Review D, 2002, 66, .	1.6	42
93	The top window for dark matter. Journal of High Energy Physics, 2010, 2010, 1.	1.6	42
94	Performance of top-quark and $W$ -boson tagging with ATLAS in Run 2 of the LHC. European Physical Journal C, 2019, 79, 1.	1.4	42
95	Zee neutrino mass model in a SUSY framework. Physical Review D, 2000, 61, .	1.6	41
96	Measurement of $W^{\pm}Z$ production cross sections and gauge boson polarisation in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. European Physical Journal C, 2019, 79, 1.	1.4	41
97	Higgs boson production cross-section measurements and their EFT interpretation in the $e^+e^-$ decay channel at $\sqrt{s} = 13$ TeV with the ATLAS detector. European Physical Journal C, 2020, 80, 1.	1.4	41
98	Global study of electron-quark contact interactions. Physical Review D, 1998, 57, 391-404.	1.6	40
99	Search for heavy resonances decaying into a W or Z boson and a Higgs boson in final states with leptons and b-jets in $36 \text{ fb}^{-1}$ of $\sqrt{s} = 13$ TeV pp collisions with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1.	1.6	40
100	Measurements of b-jet tagging efficiency with the ATLAS detector using $t\bar{t}$ events at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	1.6	40
101	Search for heavy resonances decaying into a pair of Z bosons in the $e^+e^-e^+e^-$ and $e^+e^-u\bar{u}$ final states using $139 \text{ fb}^{-1}$ of proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. European Physical Journal C, 2021, 81, 1.	1.4	40
102	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. Journal of High Energy Physics, 2019, 2019, 1.	1.6	39
103	$\hat{\sigma}(\text{pp} \rightarrow \text{Z} \text{ or } \text{H} + \text{lepton} + \text{jet} + \text{jet})$	1.6	38
104	Search for pair production of vector-like top quarks in events with one lepton, jets, and missing transverse momentum in $s = 13$ TeV pp collisions with the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1.	1.6	38
105	Search for Higgs boson pair production in the $\text{upgamma upgamma b}\bar{\text{b}}$ final state with 13 TeV pp collision data collected by the ATLAS experiment. Journal of High Energy Physics, 2018, 2018, 1.	1.6	38
106	Measurements of WH and ZH production in the $\text{H} \rightarrow \text{b}\bar{\text{b}}$ decay channel in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. European Physical Journal C, 2021, 81, 1.	1.4	38
107	Search for supersymmetry in final states with missing transverse momentum and multiple b-jets in proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1.	1.6	37
108	Electron and photon energy calibration with the ATLAS detector using 2015-2016 LHC proton-proton collision data. Journal of Instrumentation, 2019, 14, P03017-P03017.	0.5	37

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109	Search for squarks and gluinos in final states with jets and missing transverse momentum using 139 fb <sup>-1</sup> of $\sqrt{s} = 13$ TeV pp collision data with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2021, 2021, 1.	1.6	37
110	Collider discovery limits for supersymmetric Higgs bosons. <i>Physical Review D</i> , 1992, 46, 4914-4929.	1.6	36
111	Electric and anomalous magnetic dipole moments of the muon in the MSSM. <i>Journal of High Energy Physics</i> , 2009, 2009, 020-020.	1.6	36
112	Search for pair production of heavy vector-like quarks decaying to high-p T W bosons and b 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> , 2017, 2017, 1.	1.6	36
113	Measurement of flow harmonics correlations with mean transverse momentum in lead-lead and proton-lead collisions at $\sqrt{s_{\text{NN}}} = 5.02$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2019, 79, 1.	1.4	36
114	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> , 2020, 2020, 1.	1.6	36
115	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> , 2020, 80, 1.	1.4	36
116	Probing strongly interacting electroweak dynamics through $W+W\tilde{Z}$ ratios at future $e^+e^-$ colliders. <i>Physical Review D</i> , 1995, 52, 3815-3825.	1.6	35
117	Atomic parity violation, leptoquarks, and contact interactions. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2000, 480, 149-154.	1.5	35
118	Color-octet $\tilde{\chi}^0$ production in the $\tilde{\chi}^0$ decay. <i>Physical Review D</i> , 1996, 54, 929-937.	1.6	34
119	Gamma-ray constraints on effective interactions of the dark matter. <i>Journal of Cosmology and Astroparticle Physics</i> , 2011, 2011, 023-023.	1.9	34
120	Interpretations of the ATLAS diboson anomaly. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2015, 751, 188-194.	1.5	34
121	Measurements of top-quark pair differential and double-differential cross-sections in the $t\bar{t} + \text{jets}$ channel with pp collisions at $\sqrt{s} = 13$ TeV using the ATLAS detector. <i>European Physical Journal C</i> , 2019, 79, 1.	1.4	34
122	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> , 2020, 80, 1.	1.4	34
123	Lepton flavor violation as a probe of quark-lepton unification. <i>Physical Review D</i> , 2005, 72, .	1.6	33
124	Cosmic antiproton constraints on effective interactions of the dark matter. <i>Journal of Cosmology and Astroparticle Physics</i> , 2011, 2011, 004-004.	1.9	33
125	Probing the top-Yukawa coupling in associated Higgs production with a single top quark. <i>Journal of High Energy Physics</i> , 2014, 2014, 1.	1.6	33
126	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> , 2018, 2018, 1.	1.6	33



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127	Global lepton-quark neutral current constraint on low scale gravity model. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1999, 460, 383-389.	1.5	32
128	Bounds on Higgs-portal models from the LHC Higgs data. Journal of High Energy Physics, 2015, 2015, 1.	1.6	32
129	Determination of the strong coupling constant $\alpha_s$ from transverse energy correlations in multijet events at $\sqrt{s} = 8\text{-}\sqrt{\text{TeV}}$ . European Physical Journal C, 2017, 77, 872.	1.4	32
130	The impact of EDGES 21-cm data on dark matter interactions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 789, 137-144.	1.5	32
131	Measurements of the Higgs boson inclusive and differential fiducial cross sections in the $H \rightarrow b\bar{b}$ decay channel at $\sqrt{s} = 13\text{ TeV}$ . European Physical Journal C, 2020, 80, 1.	1.4	32
132	Signatures of Higgs-triplet representations at TeV+e <sup>+</sup> e <sup>-</sup> colliders. Physical Review D, 1995, 51, 4731-4737.	1.6	31
133	Pentaquark $\hat{+}$ , constituent quark structures, and prediction of charmed $\hat{c}$ and bottomed $\hat{b}$ . Physical Review D, 2004, 69, .	1.6	31
134	$W^+W^-$ scattering in the era of post-Higgs-boson discovery. Physical Review D, 2013, 87, .	1.6	31
135	Measurement of inclusive and differential cross sections in the $H \rightarrow ZZ^* \rightarrow 4\ell$ decay channel in pp collisions at $\sqrt{s} = 13\text{ TeV}$ with the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1.	1.6	31
136	Search for supersymmetry in final states with two same-sign or three leptons and jets using $36\text{ fb}^{-1}$ of $\sqrt{s} = 13\text{ TeV}$ pp collision data with the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1.	1.6	31
137	Search for $W^+W^-Z$ resonance production in $\hat{+}$ final states in pp collisions at $\sqrt{s} = 13\text{ TeV}$ with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1.	1.6	31
138	Search for Higgs boson decays to beyond-the-Standard-Model light bosons in four-lepton events with the ATLAS detector at $\sqrt{s} = 13\text{ TeV}$ . Journal of High Energy Physics, 2018, 2018, 1.	1.6	31
139	Intermediate- and heavy-Higgs-boson physics at a $0.5\text{ TeV}+e^+e^-$ collider. Physical Review D, 1992, 46, 3725-3746.	1.6	30
140	Searches for the $Z\hat{+}$ decay mode of the Higgs boson and for new high-mass resonances in pp collisions at $\sqrt{s} = 13\text{ TeV}$ with the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1.	1.6	30
141	Study of $WW\gamma$ and $WZ\gamma$ . European Physical Journal C, 2017, 77, 646.	1.4	30
142	Search for new phenomena in events with same-charge leptons and b-jets in pp collisions at $\sqrt{s} = 13\text{ TeV}$ with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1.	1.6	30
143	Searches for third-generation scalar leptoquarks in $\sqrt{s} = 13\text{ TeV}$ pp collisions with the ATLAS detector. Journal of High Energy Physics, 2019, 2019, 1.	1.6	30
144	Evidence for $t\bar{t}$ production in the multilepton final state in proton-proton collisions at $\sqrt{s} = 13\text{ TeV}$ with the ATLAS detector. European Physical Journal C, 2020, 80, 1.	1.4	30

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145	Singlino-driven electroweak baryogenesis in the next-to-MSSM. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 710, 188-191.	1.5	29
146	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. Journal of High Energy Physics, 2018, 2018, 1.	1.6	29
147	Searches for heavy ZZ and ZW resonances in the $\gamma\gamma$ , $\gamma q$ and $\gamma\gamma$ final states in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1.	1.6	29
148	Search for heavy diboson resonances in semileptonic final states in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. European Physical Journal C, 2020, 80, 1.	1.4	29
149	Measurement of lepton differential distributions and the top quark mass in $t\bar{t}$ . European Physical Journal C, 2017, 77, 804.	1.4	28
150	Measurement of $WW/WZ \rightarrow \ell u q^{\prime}$ $WW/WZ \rightarrow \ell \gamma$ , $\gamma\gamma$ production with the hadronically decaying boson reconstructed as one or two jets in pp collisions at $\sqrt{s}=8$ TeV with ATLAS, and constraints on anomalous gauge couplings. European Physical Journal C, 2017, 77, 563.	1.4	28
151	Measurement of the Drell-Yan triple-differential cross section in pp collisions at $s=8$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	1.6	28
152	Search for the Higgs boson produced in association with a vector boson and decaying into two spin-zero particles in the $H \rightarrow a a \rightarrow 4b$ channel in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1.	1.6	28
153	Search for long-lived neutral particles in pp collisions at $\sqrt{s}=13$ TeV that decay into displaced hadronic jets in the ATLAS calorimeter. European Physical Journal C, 2019, 79, 1.	1.4	28
154	Chaotic inflation on the brane and the swampland criteria. Physical Review D, 2019, 100, . <a href="http://www.w3.org/1998/Math/MathML">Higgs-boson-pair production</a> $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle$	1.6	28
155			

#	ARTICLE	IF	CITATIONS
163	Measurement of the top-quark mass in $t\bar{t} + 1$ -jet events collected with the ATLAS detector in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	1.6	27
164	Search for pair production of third-generation scalar leptoquarks decaying into a top quark and a $\tilde{\nu}_\tau$ -lepton in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.	1.6	27
165	Light pseudoscalar $\tilde{A}$ and $\tilde{H}$ decay in the simplest little Higgs model. Physical Review D, 2007, 76, .	1.6	26
166	Double-action dark matter, PAMELA and ATIC. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2009, 678, 293-300.	1.5	26
167	Search for a heavy Higgs boson decaying into a Z boson and another heavy Higgs boson in the $ell\bar{b}b$ and $ell\bar{W}W$ final states in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. European Physical Journal C, 2021, 81, 1.	1.4	26
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219	Measurement of $W^{\pm}$ boson production in Pb+Pb collisions at $\sqrt{s_{\text{NN}}}=5.02$ TeV with the ATLAS detector. European Physical Journal C, 2019, 79, 1.	1.4	17
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229	Measurement of differential cross sections and $W^+/W^{\pm}$ cross-section ratios for W boson production in association with jets at $\sqrt{s}=8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1.	1.6	16
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245	Measurements of inclusive and differential fiducial cross-sections of $\text{t}\bar{\text{t}}\gamma$ production in leptonic final states at $\sqrt{s} = 13$ TeV in ATLAS. European Physical Journal C, 2019, 79, 1.	1.4	14
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248	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.	1.4	14
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257	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> , 2021, 81, 1.	1.4	13
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260	Higgs boson enhancement effects on squark-pair production at the LHC. <i>Journal of High Energy Physics</i> , 2010, 2010, 1.	1.6	12
261	Three-loop neutrino mass model with a colored triplet scalar. <i>Physical Review D</i> , 2017, 95, .	1.6	12
262	Search for new phenomena in a lepton plus high jet multiplicity final state with the ATLAS experiment using $\sqrt{s} = 13$ TeV proton-proton collision data. <i>Journal of High Energy Physics</i> , 2017, 2017, 1.	1.6	12
263	New emerging results in Higgs precision analysis updates 2018 after establishment of third-generation Yukawa couplings. <i>Journal of High Energy Physics</i> , 2019, 2019, 1.	1.6	12
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265	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.	1.6	12
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280	Search for new phenomena with large jet multiplicities and missing transverse momentum using large-radius jets and flavour-tagging at ATLAS in 13 TeV pp collisions. Journal of High Energy Physics, 2017, 2017, 1.	1.6	11
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283	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.	1.6	11
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285	Spin alignment in the production of charm and/or bottom vector mesons via heavy quark fragmentation. Physical Review D, 1994, 50, 3181-3194.	1.6	10
286	Correlation between lepton flavor violation and $B \rightarrow d \gamma$ decays. Physical Review D, 2017, 96, 074007.	1.6	10
287	Decay of Z boson into photon and unparticle. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2008, 662, 436-440.	1.5	10
288	A supersymmetric electroweak scale seesaw model. Journal of High Energy Physics, 2017, 2017, 1.	1.6	10

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294	Determination of the parton distribution functions of the proton from ATLAS measurements of differential $W\hat{A}\pm$ and Z boson production in association with jets. Journal of High Energy Physics, 2021, 2021, 1.	1.6	10
295	Measurement of $J/\psi$ production in association with a $W\hat{A}\pm$ boson with pp data at 8 TeV. Journal of High Energy Physics, 2020, 2020, 1.	1.6	10
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304	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. Journal of High Energy Physics, 2018, 2018, 1.	1.6	9
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308	Search for dark matter produced in association with a single top quark in $\sqrt{s}=13$ TeV pp collisions with the ATLAS detector. European Physical Journal C, 2021, 81, 1.	1.4	9
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315	Enhanced charged Higgs production through W-Higgs fusion in W-b scattering. Journal of High Energy Physics, 2016, 2016, 1.	1.6	8
316	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. Journal of High Energy Physics, 2017, 2017, 1.	1.6	8
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