

# Kiyotomo Kawagoe

## List of Publications by Citations

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| 855<br>papers      | 26,355<br>citations      | 70<br>h-index  | 114<br>g-index  |
| 891<br>ext. papers | 29,609<br>ext. citations | 4.4<br>avg, IF | 3.33<br>L-index |

| #   | Paper   | IF   | Citations |
|-----|---|------|-----------|
| 855 | The ATLAS Simulation Infrastructure. <i>European Physical Journal C</i> , <b>2010</b> , 70, 823-874   | 4.2  | 817       |
| 854 | Search for neutral MSSM Higgs bosons at LEP. <i>European Physical Journal C</i> , <b>2006</b> , 47, 547   | 4.2  | 496       |
| 853 | Experimental studies on multijet production in $e^+e^-$ annihilation at PETRA energies. <i>Zeitschrift für Physik C-Particles and Fields</i> , <b>1986</b> , 33, 23-31  |      | 331       |
| 852 | Improved luminosity determination in collisions at [Formula: see text] using the ATLAS detector at the LHC. <i>European Physical Journal C</i> , <b>2013</b> , 73, 2518   | 4.2  | 276       |
| 851 | Performance of the ATLAS trigger system in 2015. <i>European Physical Journal C</i> , <b>2017</b> , 77, 317   | 4.2  | 272       |
| 850 | Experimental investigation of the energy dependence of the strong coupling strength. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>1988</b> , 213, 235-241                         | 4.2  | 265       |
| 849 | 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       |
| 848 | Physics interplay of the LHC and the ILC. <i>Physics Reports</i> , <b>2006</b> , 426, 47-358  | 27.7 | 261       |
| 847 | The detector simulation program for the OPAL experiment at LEP. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>1992</b> , 317, 47-74 | 1.2  | 252       |
| 846 | Performance of the ATLAS Trigger System in 2010. <i>European Physical Journal C</i> , <b>2012</b> , 72, 1   | 4.2  | 232       |
| 845 | Performance of missing transverse momentum reconstruction in proton-proton collisions at ( $\sqrt{s} = 7\text{ TeV}$ ) with ATLAS. <i>European Physical Journal C</i> , <b>2012</b> , 72, 1                                       | 4.2  | 217       |
| 844 | Jet energy measurement with the ATLAS detector in proton-proton collisions at ( $\sqrt{s}=7\text{ TeV}$ ). <i>European Physical Journal C</i> , <b>2013</b> , 73, 1   | 4.2  | 209       |
| 843 | Measurement of the Z0 mass and width with the opal detector at LEP. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>1989</b> , 231, 530-538  | 4.2  | 204       |
| 842 | Search for new phenomena in final states with an energetic jet and large missing transverse momentum in collisions at [Formula: see text] TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2015</b> , 75, 299 | 4.2  | 202       |
| 841 | Electron performance measurements with the ATLAS detector using the 2010 LHC proton-proton collision data. <i>European Physical Journal C</i> , <b>2012</b> , 72, 1   | 4.2  | 199       |
| 840 | Jet energy measurement and its systematic uncertainty in proton-proton collisions at [Formula: see text] TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2015</b> , 75, 17                                   | 4.2  | 194       |
| 839 | 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       |

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| 838 | Measurements of the Higgs boson production and decay rates and coupling strengths using collision data at [Formula: see text] and 8 TeV in the ATLAS experiment. <i>European Physical Journal C</i> , <b>2016</b> , 76, 6  | 4.2 | 185 |
| 837 | 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 |
| 836 | Luminosity determination in pp collisions at ( $\sqrt{s} = 7$ ) TeV using the ATLAS detector at the LHC. <i>European Physical Journal C</i> , <b>2011</b> , 71, 1  | 4.2 | 167 |
| 835 | Measurement of the muon reconstruction performance of the ATLAS detector using 2011 and 2012 LHC proton-proton collision data. <i>European Physical Journal C</i> , <b>2014</b> , 74, 3130   | 4.2 | 166 |
| 834 | Electron reconstruction and identification efficiency measurements with the ATLAS detector using the 2011 LHC proton-proton collision data. <i>European Physical Journal C</i> , <b>2014</b> , 74, 2941  | 4.2 | 160 |
| 833 | Electron and photon energy calibration with the ATLAS detector using LHC Run 1 data. <i>European Physical Journal C</i> , <b>2014</b> , 74, 1  | 4.2 | 160 |
| 832 | Jet energy resolution in proton-proton collisions at [Formula: see text] recorded in 2010 with the ATLAS detector. <i>European Physical Journal C</i> , <b>2013</b> , 73, 2306   | 4.2 | 153 |
| 831 | Search for an additional, heavy Higgs boson in the [Formula: see text] decay channel at [Formula: see text] in [Formula: see text] collision data with the ATLAS detector. <i>European Physical Journal C</i> , <b>2016</b> , 76, 45                                     | 4.2 | 152 |
| 830 | 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 |
| 829 | A measurement of global event shape distributions in the hadronic decays of the $Z^0$ . <i>Zeitschrift für Physik C-Particles and Fields</i> , <b>1990</b> , 47, 505-521   |     | 146 |
| 828 | Measurement of the distributions of event-by-event flow harmonics in lead-lead collisions at ( $\sqrt{s_{NN}} = 2.76$ TeV) with the ATLAS detector at the LHC. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1   | 5.4 | 143 |
| 827 | Measurement of the top quark-pair production cross section with ATLAS in pp collisions at ( $\sqrt{s}=7$ ) TeV. <i>European Physical Journal C</i> , <b>2011</b> , 71, 1   | 4.2 | 138 |
| 826 | 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. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1                                 | 5.4 | 126 |
| 825 | Search for dark matter candidates and large extra dimensions in events with a jet and missing transverse momentum with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1   | 5.4 | 124 |
| 824 | Search for direct production of charginos, neutralinos and sleptons in final states with two leptons and missing transverse momentum in pp collisions at ( $\sqrt{s}$ ) = 8 TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1   | 5.4 | 120 |
| 823 | Search for charged Higgs bosons decaying via $H^\pm \rightarrow \ell^\pm \bar{\nu}_\ell$ ( $\overline{\ell} = e, \mu$ ) events using pp collision data at ( $\sqrt{s} = 7$ ; TeV) with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1 | 5.4 | 112 |
| 822 | ATLAS Run 1 searches for direct pair production of third-generation squarks at the Large Hadron Collider. <i>European Physical Journal C</i> , <b>2015</b> , 75, 510   | 4.2 | 109 |
| 821 | Search for squarks and gluinos with the ATLAS detector in final states with jets and missing transverse momentum using ( $\sqrt{s}=8$ ) TeV proton-proton collision data. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1                                  | 5.4 | 108 |

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|-----|---|-----|-----|
| 820 | A study of coherence of soft gluons in hadron jets. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>1990</b> , 247, 617-628  | 4.2 | 108 |
| 819 | Measurement of the [Formula: see text] production cross-section using [Formula: see text] events with [Formula: see text]-tagged jets in [Formula: see text] collisions at [Formula: see text] and 8 TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2014</b> , 74, 3109 | 4.2 | 107 |
| 818 | 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 |
| 817 | Search for doubly charged Higgs bosons in like-sign dilepton final states at ( $\sqrt{s} = 7$ TeV) with the ATLAS detector. <i>European Physical Journal C</i> , <b>2012</b> , 72, 1  | 4.2 | 104 |
| 816 | Measurement of inclusive jet and dijet cross sections in proton-proton collisions at 7 TeV centre-of-mass energy with the ATLAS detector. <i>European Physical Journal C</i> , <b>2011</b> , 71, 1  | 4.2 | 103 |
| 815 | 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 |
| 814 | Search for the Standard Model Higgs boson produced in association with top quarks and decaying into [Formula: see text] in [Formula: see text] collisions at [Formula: see text] with the ATLAS detector. <i>European Physical Journal C</i> , <b>2015</b> , 75, 349                          | 4.2 | 94  |
| 813 | Search for direct third-generation squark pair production in final states with missing transverse momentum and two b-jets in ( $\sqrt{s}=8$ ) TeV pp collisions with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1  | 5.4 | 92  |
| 812 | Search for the minimal standard model Higgs boson in $e^+e^-$ collisions at LEP. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>1991</b> , 253, 511-523   | 4.2 | 92  |
| 811 | Constraints on new phenomena via Higgs boson couplings and invisible decays with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1  | 5.4 | 91  |
| 810 | A study of jet production rates and a test of QCD on the Z0 resonance. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>1990</b> , 235, 389-398   | 4.2 | 88  |
| 809 | Measurement of [Formula: see text] production with a veto on additional central jet activity in collisions at [Formula: see text] TeV using the ATLAS detector. <i>European Physical Journal C</i> , <b>2012</b> , 72, 2043   | 4.2 | 82  |
| 808 | Readiness of the ATLAS Tile Calorimeter for LHC collisions. <i>European Physical Journal C</i> , <b>2010</b> , 70, 1193-1236  | 4.2 | 82  |
| 807 | 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. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1  | 5.4 | 81  |
| 806 | Measurement of the Z/ $\gamma^*$ boson transverse momentum distribution in pp collisions at ( $\sqrt{s}=7$ ) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1   | 5.4 | 79  |
| 805 | Measurement of the production rates of charged hadrons in $e^+e^-$ annihilation at the Z0. <i>Zeitschrift für Physik C-Particles and Fields</i> , <b>1994</b> , 63, 181-195   |     | 79  |
| 804 | Measurement of the charge asymmetry in top quark pair production in collisions at [Formula: see text] using the ATLAS detector. <i>European Physical Journal C</i> , <b>2012</b> , 72, 2039   | 4.2 | 78  |
| 803 | Search for heavy neutrinos and right-handed bosons in events with two leptons and jets in collisions at [Formula: see text] with the ATLAS detector. <i>European Physical Journal C</i> , <b>2012</b> , 72, 2056  | 4.2 | 78  |

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| 802 | A study of charged particle multiplicities in hadronic decays of the $Z^0$ . <i>Zeitschrift für Physik C-Particles and Fields</i> , <b>1992</b> , 53, 539-554  |     | 78 |
| 801 | Search for direct production of charginos and neutralinos in events with three leptons and missing transverse momentum in $(\sqrt{s}) = 8$ TeV pp collisions with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1    | 5.4 | 76 |
| 800 | Search for a light charged Higgs boson in the decay channel $[Formula: see text]$ in $[Formula: see text]$ events using collisions at $[Formula: see text]$ with the ATLAS detector. <i>European Physical Journal C</i> , <b>2013</b> , 73, 2465       | 4.2 | 76 |
| 799 | A search for acoplanar pairs of leptons or jets in $Z^0$ decays. Mass limits on supersymmetric particles. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>1990</b> , 240, 261-270                         | 4.2 | 76 |
| 798 | Evidence for the Higgs-boson Yukawa coupling to tau leptons with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1   | 5.4 | 74 |
| 797 | Search for production of $[Formula: see text]$ resonances decaying to a lepton, neutrino and jets in $[Formula: see text]$ collisions at $[Formula: see text]$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2015</b> , 75, 209 | 4.2 | 73 |
| 796 | Observations of $B^0$ charge-flavor correlations and resonant $B^0$ and $B_K$ production. <i>Zeitschrift für Physik C-Particles and Fields</i> , <b>1995</b> , 66, 19-29   |     | 73 |
| 795 | QCD studies with $e^+e^-$ annihilation data at 130 and 136 GeV. <i>Zeitschrift für Physik C-Particles and Fields</i> , <b>1996</b> , 72, 191-206   |     | 73 |
| 794 | ATLAS search for new phenomena in dijet mass and angular distributions using pp collisions at $(\sqrt{s}=7)$ TeV. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1  | 5.4 | 72 |
| 793 | Inclusive transverse mass analysis for squark and gluino mass determination. <i>Journal of High Energy Physics</i> , <b>2008</b> , 2008, 035-035   | 5.4 | 72 |
| 792 | Mass limits for a standard model Higgs Boson in $e^+e^-$ collisions at LEP. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>1990</b> , 236, 224-232   | 4.2 | 72 |
| 791 | Measurement of the inclusive jet cross-section in collisions at $[Formula: see text]$ and comparison to the inclusive jet cross-section at $[Formula: see text]$ using the ATLAS detector. <i>European Physical Journal C</i> , <b>2013</b> , 73, 2509 | 4.2 | 71 |
| 790 | New supersymmetry mass reconstruction method at the CERN LHC. <i>Physical Review D</i> , <b>2005</b> , 71,   | 4.9 | 71 |
| 789 | Physics at the $[Formula: see text]$ linear collider. <i>European Physical Journal C</i> , <b>2015</b> , 75, 371   | 4.2 | 70 |
| 788 | Rapidity gap cross sections measured with the ATLAS detector in pp collisions at $(\sqrt{s} = 7 \text{ TeV})$ . <i>European Physical Journal C</i> , <b>2012</b> , 72, 1   | 4.2 | 70 |
| 787 | The ATLAS Inner Detector commissioning and calibration. <i>European Physical Journal C</i> , <b>2010</b> , 70, 787-821   | 4.2 | 70 |
| 786 | A combined analysis of the hadronic and leptonic decays of the $Z^0$ . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>1990</b> , 240, 497-512  | 4.2 | 70 |
| 785 | Measurement of branching ratios and polarization from $B \rightarrow e^+e^-$ and $B \rightarrow K^0$ decays at LEP. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>1991</b> , 266, 201-217               | 4.2 | 69 |

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| 784 | Searches for scalar leptoquarks in collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2016</b> , 76, 5   | 4.2 | 68 |
| 783 | A study of differences between quark and gluon jets using vertex tagging of quark jets. <i>Zeitschrift für Physik C-Particles and Fields</i> , <b>1993</b> , 58, 387-403  |     | 68 |
| 782 | Search for neutral Higgs bosons of the minimal supersymmetric standard model in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1                                      | 5.4 | 67 |
| 781 | Jet mass and substructure of inclusive jets in $\sqrt{s} = 7$ TeV pp collisions with the ATLAS experiment. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1  | 5.4 | 67 |
| 780 | Search for Higgs boson pair production in the $\gamma\gamma$ final state from collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2015</b> , 75, 412  | 4.2 | 66 |
| 779 | Search for high-mass diboson resonances with boson-tagged jets in proton-proton collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1-39                                      | 5.4 | 66 |
| 778 | Performance of missing transverse momentum reconstruction with the ATLAS detector using proton-proton collisions at $\sqrt{s} = 8$ TeV. <i>European Physical Journal C</i> , <b>2018</b> , 78, 903  | 4.2 | 66 |
| 777 | Search for heavy Majorana neutrinos with the ATLAS detector in pp collisions at $\sqrt{s} = 8$ TeV. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1   | 5.4 | 65 |
| 776 | A study of the recombination scheme dependence of jet production rates and of $\sigma(M_{Z^0})$ in hadronic $Z^0$ decays. <i>Zeitschrift für Physik C-Particles and Fields</i> , <b>1991</b> , 49, 375-384                                      |     | 65 |
| 775 | Search for the $\gamma\gamma$ decay of the Standard Model Higgs boson in associated (W/Z)H production with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1  | 5.4 | 64 |
| 774 | Search for new phenomena in final states with large jet multiplicities and missing transverse momentum at $\sqrt{s} = 8$ TeV proton-proton collisions using the ATLAS experiment. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1 | 5.4 | 64 |
| 773 | A search for lepton flavour violating $Z^0$ decays. <i>Zeitschrift für Physik C-Particles and Fields</i> , <b>1995</b> , 67, 555-563  |     | 64 |
| 772 | Measurement of the transverse momentum and $p_T$ distributions of Drell-Yan lepton pairs in proton-proton collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2016</b> , 76, 291                  | 4.2 | 63 |
| 771 | QCD studies using a cone-based jet finding algorithm for $e^+e^-$ collisions at LEP. <i>Zeitschrift für Physik C-Particles and Fields</i> , <b>1994</b> , 63, 197-211   |     | 63 |
| 770 | Search for resonant diboson production in the $\gamma\gamma$ final state in $\sqrt{s} = 8$ TeV collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2015</b> , 75, 69                              | 4.2 | 62 |
| 769 | Electron efficiency measurements with the ATLAS detector using 2012 LHC proton-proton collision data. <i>European Physical Journal C</i> , <b>2017</b> , 77, 195  | 4.2 | 61 |
| 768 | Search for dark matter in events with heavy quarks and missing transverse momentum in $\sqrt{s} = 8$ TeV collisions with the ATLAS detector. <i>European Physical Journal C</i> , <b>2015</b> , 75, 92  | 4.2 | 60 |
| 767 | Search for new phenomena in final states with large jet multiplicities and missing transverse momentum using $\sqrt{s} = 7$ TeV pp collisions with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2011</b> , 2011, 1            | 5.4 | 60 |



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| 766 | Measurement of the $\gamma$ -boson mass in pp collisions at with the ATLAS detector. <i>European Physical Journal C</i> , <b>2018</b> , 78, 110  | 4.2 | 59 |
| 765 | A determination of $\sigma_s(M_{Z^0})$ at LEP using resummed QCD calculations. <i>Zeitschrift für Physik C-Particles and Fields</i> , <b>1993</b> , 59, 1-19   |     | 59 |
| 764 | Search for a high-mass Higgs boson decaying to a W boson pair 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 | 59 |
| 763 | Measurement of the $W \rightarrow \ell \bar{\nu}$ and $Z/\gamma \rightarrow \ell \bar{\nu}$ production cross sections in proton-proton collisions at ( $\sqrt{s} = 7$ ; {text{TeV}}) with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2010</b> , 2010, 1  | 5.4 | 58 |
| 762 | Measurement of the cross sections of the reactions $e^+e^- \rightarrow \ell^+\ell^-$ and $e^+e^- \rightarrow \ell^+\ell^- \gamma$ at LEP. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>1991</b> , 257, 531-540   | 4.2 | 58 |
| 761 | A search for ( $\overline{t}t$ ) resonances using lepton-plus-jets events in proton-proton collisions at ( $\sqrt{s}=8$ ) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1   | 5.4 | 57 |
| 760 | Search for the Standard Model Higgs boson in $e^+e^-$ collisions at $\sqrt{s}=209$ GeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2001</b> , 499, 38-52   | 4.2 | 57 |
| 759 | A global determination of $\alpha_s(M_{Z^0})$ at LEP. <i>Zeitschrift für Physik C-Particles and Fields</i> , <b>1992</b> , 55, 1-24  |     | 57 |
| 758 | Measurements of $(B^0 - \bar{B}^0)$ mixing, $\left( \frac{\Gamma(Z^0 \rightarrow b\bar{b})}{\Gamma(Z^0 \rightarrow \text{hadrons})} \right)$ and semileptonic branching ratios for $b$ -flavoured hadrons in hadronic $Z^0$ decays. <i>Zeitschrift für Physik C-Particles and Fields</i> , <b>1993</b> , 60, 199-215 |     | 57 |
| 757 | Search for charged Higgs bosons decaying via $H^\pm \rightarrow \ell^\pm \nu$ in fully hadronic final states using pp collision data at ( $\sqrt{s}$ ) = 8 TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1  | 5.4 | 56 |
| 756 | Constraints on the off-shell Higgs boson signal strength in the high-mass and final states with the ATLAS detector. <i>European Physical Journal C</i> , <b>2015</b> , 75, 335   | 4.2 | 56 |
| 755 | Precision measurement and interpretation of inclusive $\gamma$ and production cross sections with the ATLAS detector. <i>European Physical Journal C</i> , <b>2017</b> , 77, 367   | 4.2 | 56 |
| 754 | 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 |
| 753 | Search for resonances decaying into top-quark pairs using fully hadronic decays in pp collisions with ATLAS at ( $\sqrt{s}=7$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1   | 5.4 | 55 |
| 752 | Measurements of top quark pair relative differential cross-sections with ATLAS in pp collisions at ( $\sqrt{s} = 7$ m{TeV}). <i>European Physical Journal C</i> , <b>2013</b> , 73, 1  | 4.2 | 55 |
| 751 | Summary of the searches for squarks and gluinos using ( $\sqrt{s}=8$ ) TeV pp collisions with the ATLAS experiment at the LHC. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1   | 5.4 | 55 |
| 750 | Measurements of the [Formula: see text] production cross sections in association with jets with the ATLAS detector. <i>European Physical Journal C</i> , <b>2015</b> , 75, 82  | 4.2 | 54 |
| 749 | Search for production of vector-like quark pairs and of four top quarks in the lepton-plus-jets final state in pp collisions at ( $\sqrt{s}=8$ ) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1  | 5.4 | 54 |

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|-----|--|-----|----|
| 748 | Search for top squark pair production in final states with one isolated lepton, jets, and missing transverse momentum in $(\sqrt{s}) = 8$ TeV pp collisions with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1 | 5-4 | 54 |
| 747 | Measurement of $W \mp Z$ production in proton-proton collisions at $(\sqrt{s})=7\text{ TeV}$ with the ATLAS detector. <i>European Physical Journal C</i> , <b>2012</b> , 72, 1   | 4-2 | 54 |
| 746 | A study of Bose-Einstein correlations in $e^+e^-$ annihilations at LEP. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>1991</b> , 267, 143-153   | 4-2 | 54 |
| 745 | Measurement of resonance production in the reactions $\pi^+\pi^- \rightarrow \rho^0 \pi^0$ and $\pi^+\pi^- \rightarrow \rho^0 \pi^0$ . <i>Zeitschrift für Physik C-Particles and Fields</i> , <b>1990</b> , 47, 343-351                            |     | 54 |
| 744 | Search for squarks and gluinos in final states with jets and missing transverse momentum at $(\sqrt{s})=13$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2016</b> , 76, 392  | 4-2 | 53 |
| 743 | Search for new phenomena in events with at least three photons collected in collisions at $(\sqrt{s})=8$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2016</b> , 76, 210   | 4-2 | 53 |
| 742 | Search for a heavy top-quark partner in final states with two leptons with the ATLAS detector at the LHC. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1  | 5-4 | 53 |
| 741 | Measurement of the inclusive and dijet cross-sections of b-jets in pp collisions at $(\sqrt{s})=7\text{ TeV}$ with the ATLAS detector. <i>European Physical Journal C</i> , <b>2011</b> , 71, 1  | 4-2 | 53 |
| 740 | Search for doubly charged Higgs bosons with the OPAL detector at LEP. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2002</b> , 526, 221-232   | 4-2 | 53 |
| 739 | Measurement of the photon identification efficiencies with the ATLAS detector using LHC Run-1 data. <i>European Physical Journal C</i> , <b>2016</b> , 76, 666   | 4-2 | 53 |
| 738 | Search for direct top-squark pair production in final states with two leptons in pp collisions at $(\sqrt{s}) = 8$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1                                      | 5-4 | 52 |
| 737 | Search for lepton-flavour-violating decays of the Higgs and bosons with the ATLAS detector. <i>European Physical Journal C</i> , <b>2017</b> , 77, 70  | 4-2 | 52 |
| 736 | Search for dark matter at $(\sqrt{s})=13$ TeV in final states containing an energetic photon and large missing transverse momentum with the ATLAS detector. <i>European Physical Journal C</i> , <b>2017</b> , 77, 393                             | 4-2 | 52 |
| 735 | Measurement of flow harmonics with multi-particle cumulants in Pb+Pb collisions at $(\sqrt{s})=2.76$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2014</b> , 74, 3157  | 4-2 | 52 |
| 734 | Measurement of the W boson polarization in top quark decays with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1   | 5-4 | 52 |
| 733 | Performance of the ATLAS muon trigger in pp collisions at $(\sqrt{s})=7$ TeV. <i>European Physical Journal C</i> , <b>2015</b> , 75, 120   | 4-2 | 51 |
| 732 | Measurement of the jet fragmentation function and transverse profile in proton-proton collisions at a center-of-mass energy of 7 TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2011</b> , 71, 1                             | 4-2 | 51 |
| 731 | Development and study of the multi pixel photon counter. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2007</b> , 581, 427-432                       | 1-2 | 51 |



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| 730 | Measurement of the production cross section of jets in association with a Z boson in pp collisions at ( $\sqrt{s}=7$ ) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1  | 5.4 | 50 |
| 729 | Evidence for the ( $H \rightarrow b\bar{b}$ ) decay with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1   | 5.4 | 50 |
| 728 | Search for direct pair production of a chargino and a neutralino decaying to the 125 GeV Higgs boson in [ $\sqrt{s}$ ] TeV [ $\sqrt{s}$ ] collisions with the ATLAS detector. <i>European Physical Journal C</i> , <b>2015</b> , 75, 208                                   | 4.2 | 50 |
| 727 | A study of heavy flavour production using muons in hadronic Z0 decays. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>1991</b> , 263, 311-324  | 4.2 | 50 |
| 726 | 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. <i>European Physical Journal C</i> , <b>2020</b> , 80, 1 | 4.2 | 50 |
| 725 | Identification and energy calibration of hadronically decaying tau leptons with the ATLAS experiment in collisions at [ $\sqrt{s}$ ][ $\sqrt{s}$ ]. <i>European Physical Journal C</i> , <b>2015</b> , 75, 303   | 4.2 | 49 |
| 724 | Measurement of charged-particle spectra in Pb+Pb collisions at ( $\sqrt{s_{\mathrm{NN}}}=2.76$ ) TeV with the ATLAS detector at the LHC. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1   | 5.4 | 49 |
| 723 | Search for high-mass resonances decaying to dilepton final states in pp collisions at ( $\sqrt{s}=7$ ) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1  | 5.4 | 49 |
| 722 | Search for stable and long-lived massive charged particles in e+e- collisions at $\sqrt{s}=130\div 136$ GeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2003</b> , 572, 8-20   | 4.2 | 49 |
| 721 | A search for the top and b quarks in hadronic Z0 decays. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>1990</b> , 236, 364-374  | 4.2 | 49 |
| 720 | A search for technipions and charged Higgs bosons at LEP. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>1990</b> , 242, 299-308   | 4.2 | 49 |
| 719 | Search for resonances in diphoton events at ( $\sqrt{s}=13$ ) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1   | 5.4 | 49 |
| 718 | Search for electroweak production of supersymmetric particles in final states with two or three leptons at with the ATLAS detector. <i>European Physical Journal C</i> , <b>2018</b> , 78, 995   | 4.2 | 49 |
| 717 | Measurements of top-quark pair differential cross-sections in the lepton+jets channel in collisions at [ $\sqrt{s}$ ] using the ATLAS detector. <i>European Physical Journal C</i> , <b>2016</b> , 76, 538   | 4.2 | 48 |
| 716 | Search for supersymmetry at [ $\sqrt{s}$ ] TeV in final states with jets and two same-sign leptons or three leptons with the ATLAS detector. <i>European Physical Journal C</i> , <b>2016</b> , 76, 259  | 4.2 | 48 |
| 715 | Measurement of multi-particle azimuthal correlations in pp, p+Pb and low-multiplicity Pb+Pb collisions with the ATLAS detector. <i>European Physical Journal C</i> , <b>2017</b> , 77, 428   | 4.2 | 48 |
| 714 | Hunt for new phenomena using large jet multiplicities and missing transverse momentum with ATLAS in 4.7 fb of ( $\sqrt{s} = 7$ ; TeV) proton-proton collisions. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1  | 5.4 | 48 |
| 713 | Search for single top quark production at LEP2. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2001</b> , 521, 181-194   | 4.2 | 48 |

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| 712 | Search for long-lived charginos based on a disappearing-track signature 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 | 48 |
| 711 | Measurement of the prompt $[\text{Formula: see text}]$ pair production cross-section in collisions at $[\text{Formula: see text}]$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2017</b> , 77, 76                                | 4.2 | 47 |
| 710 | 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 |
| 709 | Search for the neutral Higgs bosons of the minimal supersymmetric standard model in pp collisions at ( $\sqrt{s}=7$ ) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1   | 5.4 | 47 |
| 708 | Test of CP-invariance in $e^+e^- \rightarrow Z^0 \rightarrow \mu^+\mu^-$ and a limit on the weak dipole moment of the $\mu$ lepton. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>1992</b> , 281, 405-415 | 4.2 | 47 |
| 707 | Search for a new resonance decaying to a or boson and a Higgs boson in the $[\text{Formula: see text}]$ final states with the ATLAS detector. <i>European Physical Journal C</i> , <b>2015</b> , 75, 263   | 4.2 | 46 |
| 706 | Light-quark and gluon jet discrimination in $[\text{Formula: see text}]$ collisions at $[\text{Formula: see text}]$ with the ATLAS detector. <i>European Physical Journal C</i> , <b>2014</b> , 74, 3023   | 4.2 | 46 |
| 705 | Search for lepton-flavour-violating $H \rightarrow \mu\mu$ decays of the Higgs boson with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1  | 5.4 | 46 |
| 704 | Measurement of the time dependence of mixing using a jet charge technique. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>1994</b> , 327, 411-424  | 4.2 | 46 |
| 703 | Search for anomalous production of prompt same-sign lepton pairs and pair-produced doubly charged Higgs bosons with ( $\sqrt{s}=8$ ) TeV pp collisions using the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1           | 5.4 | 45 |
| 702 | Search for invisible decays of a Higgs boson using vector-boson fusion 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 | 45 |
| 701 | Measurement of ZZ production in pp collisions at ( $\sqrt{s}=7$ ) TeV and limits on anomalous ZZZ and ZZ couplings with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1  | 5.4 | 45 |
| 700 | Muon reconstruction efficiency and momentum resolution of the ATLAS experiment in proton-proton collisions at $[\text{Formula: see text}]$ TeV in 2010. <i>European Physical Journal C</i> , <b>2014</b> , 74, 3034                                      | 4.2 | 45 |
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| 698 | Detailed study of gluino decay into third generation squarks at the CERN LHC. <i>Physical Review D</i> , <b>2003</b> , 68,   | 4.9 | 45 |
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| 696 | A search for scalar leptoquarks in $Z^0$ decays. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>1991</b> , 263, 123-134  | 4.2 | 45 |
| 695 | A measurement of strange baryon production in hadronic $Z^0$ decays. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>1992</b> , 291, 503-518  | 4.2 | 45 |

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| 694 | Search for supersymmetry in events containing a same-flavour opposite-sign dilepton pair, jets, and large missing transverse momentum in [Formula: see text] TeV collisions with the ATLAS detector. <i>European Physical Journal C</i> , <b>2015</b> , 75, 318                                  | 4.2 | 44 |
| 693 | Identification of boosted, hadronically decaying bosons and comparisons with ATLAS data taken at [Formula: see text] TeV. <i>European Physical Journal C</i> , <b>2016</b> , 76, 154   | 4.2 | 44 |
| 692 | Measurement of isolated-photon pair production in pp collisions at ( $\sqrt{s}=7$ ;TeV ) with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1  | 5.4 | 44 |
| 691 | Search for pair-produced massive coloured scalars in four-jet final states with the ATLAS detector in proton-proton collisions at ( $\sqrt{s} = 7$ mbox{TeV}). <i>European Physical Journal C</i> , <b>2013</b> , 73, 1  | 4.2 | 44 |
| 690 | Measurement of multi-jet cross sections in proton-proton collisions at a 7 TeV center-of-mass energy. <i>European Physical Journal C</i> , <b>2011</b> , 71, 1   | 4.2 | 44 |
| 689 | Angular analysis of $B^0 \rightarrow K^{*0} \mu^+ \mu^-$ decays in pp collisions at ( $\sqrt{s}=8$ ) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1  | 5.4 | 44 |
| 688 | Performance of jet substructure techniques for large-R jets in proton-proton collisions at ( $\sqrt{s}=7$ ) TeV using the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1  | 5.4 | 43 |
| 687 | Measurement of the cross section for top-quark pair production in pp collisions at ( $\sqrt{s} = 7$ );TeV with the ATLAS detector using final states with two high-p T leptons. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1  | 5.4 | 43 |
| 686 | A study of $K_S^0$ production in $Z^0$ decays. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>1991</b> , 264, 467-475  | 4.2 | 43 |
| 685 | 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 |
| 684 | 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 |
| 683 | Measurement of the differential cross-sections of prompt and non-prompt production of [Formula: see text] and [Formula: see text] in collisions at [Formula: see text] and 8 TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2016</b> , 76, 283                             | 4.2 | 42 |
| 682 | Measurement of the top quark mass with the template method in the [Formula: see text] channel using ATLAS data. <i>European Physical Journal C</i> , <b>2012</b> , 72, 2046  | 4.2 | 42 |
| 681 | Summary of the ATLAS experiment's sensitivity to supersymmetry after LHC Run 1 Interpreted in the phenomenological MSSM. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1   | 5.4 | 42 |
| 680 | Evidence for b-flavoured baryon production in $Z^0$ decays at LEP. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>1992</b> , 281, 394-404  | 4.2 | 42 |
| 679 | 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 |
| 678 | Search for direct top squark pair production in events with a [Formula: see text] boson, [Formula: see text]-jets and missing transverse momentum in [Formula: see text] TeV [Formula: see text] collisions with the ATLAS detector. <i>European Physical Journal C</i> , <b>2014</b> , 74, 2883 | 4.2 | 41 |
| 677 | Single hadron response measurement and calorimeter jet energy scale uncertainty with the ATLAS detector at the LHC. <i>European Physical Journal C</i> , <b>2013</b> , 73, 1   | 4.2 | 41 |

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| 676 | Search for supersymmetric particles in events with lepton pairs and large missing transverse momentum in ( $\sqrt{s}=7\sim 13$ TeV) proton-proton collisions with the ATLAS experiment. <i>European Physical Journal C</i> , <b>2011</b> , 71, 1             | 4.2 | 41 |
| 675 | Readiness of the ATLAS liquid argon calorimeter for LHC collisions. <i>European Physical Journal C</i> , <b>2010</b> , 70, 723-753   | 4.2 | 41 |
| 674 | A model independent observation of the string effect using quark tagging at LEP. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>1991</b> , 261, 334-346  | 4.2 | 41 |
| 673 | Limits on neutral heavy lepton production from Z0 decay. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>1990</b> , 247, 448-457  | 4.2 | 41 |
| 672 | Search for new particles in events with one lepton and missing transverse momentum in pp collisions at ( $\sqrt{s}$ ) = 8 TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1   | 5.4 | 40 |
| 671 | Search for scalar top and scalar bottom quarks at $\sqrt{s} = 189$ GeV at LEP. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>1999</b> , 456, 95-106   | 4.2 | 40 |
| 670 | Evidence for final state photons in multihadronic decays of the Z0. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>1990</b> , 246, 285-296   | 4.2 | 40 |
| 669 | Measurement of the centrality dependence of the charged-particle pseudorapidity distribution in proton-lead collisions at ( $\sqrt{s_{NN}}=2.76$ ) TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2016</b> , 76, 199                   | 4.2 | 39 |
| 668 | Search for supersymmetry at ( $\sqrt{s}$ ) = 8 TeV in final states with jets and two same-sign leptons or three leptons with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1   | 5.4 | 39 |
| 667 | A search for ( $\overline{t}t$ ) resonances in lepton+jets events with highly boosted top quarks collected in pp collisions at ( $\sqrt{s} = 7$ ) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1                 | 5.4 | 39 |
| 666 | An upper limit on the anomalous magnetic moment of the $\tau$ lepton. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>1998</b> , 431, 188-198   | 4.2 | 39 |
| 665 | 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 |
| 664 | Performance of algorithms that reconstruct missing transverse momentum in ( $\sqrt{s}=8$ ) TeV proton-proton collisions in the ATLAS detector. <i>European Physical Journal C</i> , <b>2017</b> , 77, 241  | 4.2 | 38 |
| 663 | Observation and measurements of the production of prompt and non-prompt $B$ mesons in association with a $W$ boson in $pp$ collisions at ( $\sqrt{s}=7$ ) TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2015</b> , 75, 229            | 4.2 | 38 |
| 662 | Search for long-lived neutral particles decaying into lepton jets in proton-proton collisions at ( $\sqrt{s}=8$ ) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1   | 5.4 | 38 |
| 661 | Evidence for chain-like production of strange baryon pairs in jets. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>1993</b> , 305, 415-427   | 4.2 | 38 |
| 660 | A measurement of energy correlations and a determination of $\sigma_{\text{had}}(M_{Z^0})$ $e^+e^-$ annihilations at $\sqrt{s}=91$ GeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>1990</b> , 252, 159-169 | 4.2 | 38 |
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| 657 | Measurement of the production of a W boson in association with a charm quark in pp collisions at ( $\sqrt{s} = 7$ TeV) with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1   | 5.4 | 37 |
| 656 | Search for squarks and gluinos in events with isolated leptons, jets and missing transverse momentum at ( $\sqrt{s} = 8$ ) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1   | 5.4 | 37 |
| 655 | Search for the Standard Model Higgs boson in the $H \rightarrow \tau^+ \tau^-$ decay mode in ( $\sqrt{s} = 7, \text{TeV}$ ) pp collisions with ATLAS. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1   | 5.4 | 37 |
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| 653 | Search for massive colored scalars in four-jet final states in ( $\sqrt{s} = 7$ TeV) proton-proton collisions with the ATLAS detector. <i>European Physical Journal C</i> , <b>2011</b> , 71, 1   | 4.2 | 37 |
| 652 | Measurement of $ V_{cb} $ using decays. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2000</b> , 482, 15-30  | 4.2 | 37 |
| 651 | A measurement of the $B$ mass and the first CPT test with $B$ leptons. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2000</b> , 492, 23-31   | 4.2 | 37 |
| 650 | A study of charm hadron production in ( $Z^0$ to $c\bar{c}$ ) and ( $Z^0$ to $b\bar{b}$ ) decays at LEP. <i>Zeitschrift für Physik C-Particles and Fields</i> , <b>1996</b> , 72, 1-16  |     | 37 |
| 649 | Inclusive neutral vector meson production in hadronic $Z^0$ decays. <i>Zeitschrift für Physik C-Particles and Fields</i> , <b>1992</b> , 56, 521-535  |     | 37 |
| 648 | Evidence for the existence of the strange b-flavoured meson $B_s^0$ in $Z^0$ decays. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>1992</b> , 295, 357-370   | 4.2 | 37 |
| 647 | Measurement of $(\Gamma(Z^0 \rightarrow b\bar{b})/\Gamma(Z^0 \rightarrow \text{hadrons}))$ using leptons. <i>Zeitschrift für Physik C-Particles and Fields</i> , <b>1993</b> , 58, 523-539  |     | 37 |
| 646 | A measurement of the total cross section and a study of inclusive muon production for the process $e^+e^- \rightarrow \text{hadrons}$ in the energy range between 39.79 GeV and 46.78 GeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>1985</b> , 160, 337-342 | 4.2 | 37 |
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| 643 | Search for direct pair production of the top squark in all-hadronic final states in proton-proton collisions at ( $\sqrt{s} = 8$ TeV) with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1  | 5.4 | 36 |
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| 638 | 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 |
| 637 | Measurement of quarkonium production in proton-lead and proton-proton collisions at with the ATLAS detector. <i>European Physical Journal C</i> , <b>2018</b> , 78, 171   | 4.2 | 35 |
| 636 | Measurement of the charged-particle multiplicity inside jets from [Formula: see text][Formula: see text] collisions with the ATLAS detector. <i>European Physical Journal C</i> , <b>2016</b> , 76, 322   | 4.2 | 35 |
| 635 | Measurement of jet fragmentation in Pb+Pb and collisions at TeV with the ATLAS detector at the LHC. <i>European Physical Journal C</i> , <b>2017</b> , 77, 379  | 4.2 | 35 |
| 634 | Search for second generation scalar leptoquarks in pp collisions at ( $\sqrt{s}=7\sim\text{TeV}$ ) with the ATLAS detector. <i>European Physical Journal C</i> , <b>2012</b> , 72, 1  | 4.2 | 35 |
| 633 | Response of the CALICE Si-W electromagnetic calorimeter physics prototype to electrons. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2009</b> , 608, 372-383 | 1.2 | 35 |
| 632 | A study of b quark fragmentation into B0 and B+ mesons at LEP. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>1995</b> , 364, 93-106  | 4.2 | 35 |
| 631 | Measurement of the cross-section for W boson production in association with b-jets in pp collisions at ( $\sqrt{s}=7$ ) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1  | 5.4 | 34 |
| 630 | ATLAS search for a heavy gauge boson decaying to a charged lepton and a neutrino in pp collisions at ( $\sqrt{s} = 7 \text{ TeV}$ ). <i>European Physical Journal C</i> , <b>2012</b> , 72, 1   | 4.2 | 34 |
| 629 | Search for same-sign top-quark production and fourth-generation down-type quarks in pp collisions at ( $\sqrt{s} = \{7\}; \text{TeV}$ ) with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1                              | 5.4 | 34 |
| 628 | Construction and commissioning of the CALICE analog hadron calorimeter prototype. <i>Journal of Instrumentation</i> , <b>2010</b> , 5, P05004-P05004  | 1   | 34 |
| 627 | Measurement of the Q2 evolution of the photon structure function F2. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>1997</b> , 411, 387-401   | 4.2 | 34 |
| 626 | Production of fermion-pair events in e+e- collisions at 161 GeV centre-of-mass energy. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>1997</b> , 391, 221-234   | 4.2 | 34 |
| 625 | Constraints on anomalous quartic gauge boson couplings from $\gamma\gamma$ and $qq$ events at CERN LEP2. <i>Physical Review D</i> , <b>2004</b> , 70,   | 4.9 | 34 |
| 624 | Measurement of the mass of the W boson in e+e- collisions at. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>1996</b> , 389, 416-428  | 4.2 | 34 |
| 623 | Search for heavy particles decaying into top-quark pairs using lepton-plus-jets events in proton-proton collisions at with the ATLAS detector. <i>European Physical Journal C</i> , <b>2018</b> , 78, 565   | 4.2 | 34 |



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| 622 | 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 |
| 621 | Measurement of single photon production in $e+e^-$ collisions near the $Z^0$ resonance. <i>Zeitschrift für Physik C-Particles and Fields</i> , <b>1995</b> , 65, 47-65   |     | 33 |
| 620 | Decay mode independent search for a light Higgs boson and new scalars. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>1991</b> , 268, 122-136  | 4.2 | 33 |
| 619 | Observation of charmed mesons in photon-photon collisions. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>1987</b> , 184, 288-292  | 4.2 | 33 |
| 618 | Search for charged Higgs bosons in the $H^\pm \rightarrow tb$ decay channel in pp collisions at $(\sqrt{s}=8)$ TeV using the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1   | 5.4 | 33 |
| 617 | Search for top-squark pair production in final states with one lepton, jets, and missing transverse momentum using 36 fb $^{-1}$ 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 |
| 616 | Search for charged Higgs bosons decaying via $H^\pm \rightarrow tt$ in the $b$ -jets and $b$ -lepton final states with 36 fb $^{-1}$ of pp collision data recorded at $(\sqrt{s}=13)$ TeV with the ATLAS experiment. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1   | 5.4 | 33 |
| 615 | Measurement of the top quark mass in the $[t\bar{t} \rightarrow t\bar{t} + \text{lepton} + \text{neutrino}]$ and $[t\bar{t} \rightarrow t\bar{t} + \text{lepton} + \text{neutrino}]$ channels using $[t\bar{t} \rightarrow t\bar{t} + \text{lepton} + \text{neutrino}]$ ATLAS data. <i>European Physical Journal C</i> , <b>2015</b> , 75, 330 | 4.2 | 32 |
| 614 | Search for dark matter produced in association with bottom or top quarks in $\sqrt{s}=13$ TeV collisions with the ATLAS detector. <i>European Physical Journal C</i> , <b>2018</b> , 78, 18  | 4.2 | 32 |
| 613 | Search for heavy charged particles and for particles with anomalous charge in $e+e^-$ collisions at LEP. <i>Zeitschrift für Physik C-Particles and Fields</i> , <b>1995</b> , 67, 203-211  |     | 32 |
| 612 | Intermittency in hadronic decays of the $Z^0$ . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>1991</b> , 262, 351-361   | 4.2 | 32 |
| 611 | 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. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1  | 5.4 | 31 |
| 610 | 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 |
| 609 | Measurement of the polarisation of W bosons produced with large transverse momentum in pp collisions at $(\sqrt{s} = 7 \text{ TeV})$ with the ATLAS experiment. <i>European Physical Journal C</i> , <b>2012</b> , 72, 1   | 4.2 | 31 |
| 608 | Differential top-antitop cross-section measurements as a function of observables constructed from final-state particles using pp collisions at $(\sqrt{s}=7)$ TeV in the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1   | 5.4 | 31 |
| 607 | Measurement of the production and lepton charge asymmetry of $[t\bar{t} \rightarrow t\bar{t} + \text{lepton} + \text{neutrino}]$ bosons in Pb+Pb collisions at $[t\bar{t} \rightarrow t\bar{t} + \text{lepton} + \text{neutrino}]$ with the ATLAS detector. <i>European Physical Journal C</i> , <b>2015</b> , 75, 23                          | 4.2 | 31 |
| 606 | Search for contact interactions and large extra dimensions in the dilepton channel using proton-proton collisions at $[t\bar{t} \rightarrow t\bar{t} + \text{lepton} + \text{neutrino}]$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2014</b> , 74, 3134  | 4.2 | 31 |
| 605 | Search for strong production of supersymmetric particles in final states with missing transverse momentum and at least three b-jets at $(\sqrt{s} = 8)$ TeV proton-proton collisions with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1  | 5.4 | 31 |

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| 604 | A search for flavour changing neutral currents in top-quark decays in pp collision data collected with the ATLAS detector at ( $\sqrt{s}=7\text{TeV}$ ). <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1                           | 5.4  | 3 <sup>1</sup> |
| 603 | Search for light scalar top-quark pair production in final states with two leptons with the ATLAS detector in ( $\sqrt{s}=7\text{TeV}$ ) proton-proton collisions. <i>European Physical Journal C</i> , <b>2012</b> , 72, 1                      | 4.2  | 3 <sup>1</sup> |
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| 600 | $W+W\bar{\nu}_\tau$ production cross section and W branching fractions in $e^+e^-$ collisions at 189 GeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2000</b> , 493, 249-265                   | 4.2  | 3 <sup>1</sup> |
| 599 | Measurement of the Z 0 line shape parameters and the electroweak couplings of charged leptons. <i>Zeitschrift für Physik C-Particles and Fields</i> , <b>1991</b> , 52, 175-207  |      | 3 <sup>1</sup> |
| 598 | Measurements of b-jet tagging efficiency with the ATLAS detector using ( $\overline{t}$ ) events at ( $\sqrt{s}=13$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1   | 5.4  | 3 <sup>1</sup> |
| 597 | Experimental tests of particle flow calorimetry. <i>Reviews of Modern Physics</i> , <b>2016</b> , 88,  | 40.5 | 3 <sup>0</sup> |
| 596 | Search for third generation scalar leptoquarks in pp collisions at ( $\sqrt{s}=7$ ) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1   | 5.4  | 3 <sup>0</sup> |
| 595 | Search for a scalar partner of the top quark in the jets plus missing transverse momentum final state at ( $\sqrt{s}=13$ ) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1                            | 5.4  | 3 <sup>0</sup> |
| 594 | Measurements of fiducial and differential cross sections for Higgs boson production in the diphoton decay channel at ( $\sqrt{s}=8$ ) TeV with ATLAS. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1                              | 5.4  | 3 <sup>0</sup> |
| 593 | Measurement of the [Formula: see text] production cross section in the tau + jets channel using the ATLAS detector. <i>European Physical Journal C</i> , <b>2013</b> , 73, 2328  | 4.2  | 3 <sup>0</sup> |
| 592 | Measurements of underlying-event properties using neutral and charged particles in pp collisions at ( $\sqrt{s}=900$ ) GeV and ( $\sqrt{s}=7$ ) TeV with the ATLAS detector at the LHC. <i>European Physical Journal C</i> , <b>2011</b> , 71, 1 | 4.2  | 3 <sup>0</sup> |
| 591 | Search for the $B_c$ meson in hadronic Z0 decays. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>1998</b> , 420, 157-168   | 4.2  | 3 <sup>0</sup> |
| 590 | A study of in Z0 decays. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>1991</b> , 262, 341-350  | 4.2  | 3 <sup>0</sup> |
| 589 | A direct search for new charged heavy leptons at LEP. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>1990</b> , 240, 250-260   | 4.2  | 3 <sup>0</sup> |
| 588 | 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  | 3 <sup>0</sup> |
| 587 | Searches for heavy long-lived charged particles with the ATLAS detector in proton-proton collisions at ( $\sqrt{s}=8$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1   | 5.4  | 2 <sup>9</sup> |

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| 586 | Search for the direct production of charginos, neutralinos and staus in final states with at least two hadronically decaying taus and missing transverse momentum in pp collisions at ( $\sqrt{s}=8$ ) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1 | 5.4 | 29 |
| 585 | 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 |
| 584 | 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> , <b>2017</b> , 2017, 1                            | 5.4 | 29 |
| 583 | Search for pair and single production of new heavy quarks that decay to a Z boson and a third-generation quark in pp collisions at ( $\sqrt{s}=8$ ) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1  | 5.4 | 29 |
| 582 | Search for anomalous production of high mass photon pairs in $e+e$ collisions at LEP. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>1993</b> , 311, 391-407  | 4.2 | 29 |
| 581 | A study of photon production in hadronic $+e$ annihilation. <i>Zeitschrift für Physik C-Particles and Fields</i> , <b>1985</b> , 28, 343-356  |     | 29 |
| 580 | Two-particle Bose-Einstein correlations in collisions at [Formula: see text] 0.9 and 7 TeV measured with the ATLAS detector. <i>European Physical Journal C</i> , <b>2015</b> , 75, 466   | 4.2 | 28 |
| 579 | A search for pair-produced resonances in four-jet final states at with the ATLAS detector. <i>European Physical Journal C</i> , <b>2018</b> , 78, 250   | 4.2 | 28 |
| 578 | 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 |
| 577 | Search for single top-quark production via flavour-changing neutral currents at 8 TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2016</b> , 76, 55  | 4.2 | 28 |
| 576 | Measurement of the longitudinal, transverse and asymmetry fragmentation functions at LEP. <i>Zeitschrift für Physik C-Particles and Fields</i> , <b>1995</b> , 68, 203-213  |     | 28 |
| 575 | A measurement of the QCD colour factor ratios $C_A/C_F$ and $T_F/C_F$ from angular correlations in four-jet events. <i>Zeitschrift für Physik C-Particles and Fields</i> , <b>1995</b> , 65, 367-377  |     | 28 |
| 574 | A study of charm meson production in semileptonic B decays. <i>Zeitschrift für Physik C-Particles and Fields</i> , <b>1995</b> , 67, 57-68  |     | 28 |
| 573 | A direct search for neutralino production at LEP. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>1990</b> , 248, 211-219  | 4.2 | 28 |
| 572 | Search for minimal supersymmetric standard model Higgs Bosons $H^\pm$ and for a [Formula: see text] boson in the [Formula: see text] final state produced in collisions at [Formula: see text] TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2016</b> , 76, 585            | 4.2 | 28 |
| 571 | 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. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1   | 5.4 | 28 |
| 570 | Fiducial, total and differential cross-section measurements of $s$ -channel single top-quark production in collisions at 8 TeV using data collected by the ATLAS detector. <i>European Physical Journal C</i> , <b>2017</b> , 77, 531   | 4.2 | 27 |
| 569 | Measurement of the inclusive jet cross-section in proton-proton collisions at ( $\sqrt{s}=7$ ) TeV using 4.5 fb $^{-1}$ of data with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1  | 5.4 | 27 |

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| 568 | Search for pair production of vector-like top quarks in events with one lepton, jets, 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 | 27 |
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| 566 | Test of QCD analytic predictions for the multiplicity ratio between gluon and quark jets. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>1996</b> , 388, 659-672  | 4.2 | 27 |
| 565 | Multiplicity and transverse momentum correlations in multihadronic final states in $e+e$ interactions at $\sqrt{s}=91.2$ GeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>1994</b> , 320, 417-430        | 4.2 | 27 |
| 564 | A measurement of the electroweak couplings of up and down type quarks using final state photons in hadronic $Z^0$ decays. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>1991</b> , 264, 219-232            | 4.2 | 27 |
| 563 | Study of the rare decays of $[Formula: see text]$ and $[Formula: see text]$ into muon pairs from data collected during the LHC Run 1 with the ATLAS detector. <i>European Physical Journal C</i> , <b>2016</b> , 76, 513                                  | 4.2 | 27 |
| 562 | 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 |
| 561 | 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 |
| 560 | Measurement of $t\bar{t}$ and $t\bar{t}$ production with ( $\sqrt{s}$ ) = 7 TeV pp collisions at ATLAS. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1   | 5.4 | 26 |
| 559 | Measurements of the production cross section of a $[Formula: see text]$ boson in association with jets in collisions at $[Formula: see text]$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2017</b> , 77, 361                     | 4.2 | 26 |
| 558 | Analysis of events with b-jets and a pair of leptons of the same charge in pp collisions at ( $\sqrt{s}=8$ ) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1   | 5.4 | 26 |
| 557 | Measurement of differential production cross-sections for a Z boson in association with b-jets in 7 TeV proton-proton collisions with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1                                   | 5.4 | 26 |
| 556 | Determination of $\beta_S$ using OPAL hadronic event shapes at ( $\sqrt{s}=91$ mbox{--}209~\mathrm{GeV}) and resummed NNLO calculations. <i>European Physical Journal C</i> , <b>2011</b> , 71, 1   | 4.2 | 26 |
| 555 | Measurement of the photon structure function $F_2^{\gamma}$ at low x. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>1997</b> , 412, 225-234  | 4.2 | 26 |
| 554 | Scenery from the top: Study of the third generation squarks at the CERN LHC. <i>Physical Review D</i> , <b>2002</b> , 66,   | 4.9 | 26 |
| 553 | A model independent measurement of quark and gluon jet properties and differences. <i>Zeitschrift f r Physik C-Particles and Fields</i> , <b>1995</b> , 68, 179-201   |     | 26 |
| 552 | A measurement of charged particle multiplicity in $Z^0 \rightarrow c\bar{c}$ and $Z^0 \rightarrow b\bar{b}$ events. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>1995</b> , 352, 176-186                  | 4.2 | 26 |
| 551 | Searches for neutral Higgs bosons in $e^+e^-$ collisions at LEP. <i>Zeitschrift f r Physik C-Particles and Fields</i> , <b>1991</b> , 49, 1-15  |     | 26 |

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| 550 | 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 |
| 549 | Electron and photon energy calibration with the ATLAS detector using 2015-2016 LHC proton-proton collision data. <i>Journal of Instrumentation</i> , <b>2019</b> , 14, P03017-P03017  | 1   | 25 |
| 548 | Multi-channel search for squarks and gluinos in $[ \text{Formula: see text} ]$ collisions with the ATLAS detector at the LHC. <i>European Physical Journal C</i> , <b>2013</b> , 73, 2362   | 4.2 | 25 |
| 547 | Measurement of inclusive and differential cross sections in the $H \rightarrow ZZ^* \rightarrow 4\ell$ decay 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 |
| 546 | Search for $[ \text{Formula: see text} ]$ decays in $[ \text{Formula: see text} ]$ collisions at $[ \text{Formula: see text} ]$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2015</b> , 75, 165                             | 4.2 | 25 |
| 545 | Measurement of the multiplicity of charm quark pairs from gluons in hadronic $Z^0$ Decays. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>1995</b> , 353, 595-605                                     | 4.2 | 25 |
| 544 | A first measurement of the $\bar{b}b$ and $\bar{t}t$ spin compositions in hadronic $Z^0$ decays. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>1996</b> , 384, 377-387                               | 4.2 | 25 |
| 543 | Studies of charged particle multiplicity in b quark events. <i>Zeitschrift für Physik C-Particles and Fields</i> , <b>1994</b> , 61, 209-221  |     | 25 |
| 542 | A measurement of $(892)\pi$ production in hadronic $Z^0$ decays. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>1993</b> , 305, 407-414   | 4.2 | 25 |
| 541 | Analysis of $Z^0$ couplings to charged leptons. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>1990</b> , 247, 458-472  | 4.2 | 25 |
| 540 | Determination of semi-muonic branching ratios and fragmentation functions of heavy quarks in $e^+e^-$ annihilation at $(\sqrt{s})=34.6$ GeV. <i>Zeitschrift für Physik C-Particles and Fields</i> , <b>1987</b> , 33, 339-349                       |     | 25 |
| 539 | Comparison of three-jet events with QCD shower models. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>1985</b> , 157, 340-344   | 4.2 | 25 |
| 538 | Search for bottom squark pair production in proton-proton collisions at $[ \text{Formula: see text} ]$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2016</b> , 76, 547  | 4.2 | 25 |
| 537 | Measurement of the inclusive isolated prompt photon cross section 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 | 25 |
| 536 | Measurement of the top quark mass in the $(\bar{t} \rightarrow \ell \nu)$ 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 |
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| 534 | Measurement of the top quark pair production charge asymmetry in proton-proton collisions at $(\sqrt{s})=7$ TeV using the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1   | 5.4 | 24 |
| 533 | Measurement of the production cross section of prompt $J/\psi$ mesons in association with a $W$ boson in pp collisions at $(\sqrt{s})=7$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1                 | 5.4 | 24 |



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| 531 | Search for top and bottom squarks from gluino pair production in final states with missing transverse energy and at least three b-jets with the ATLAS detector. <i>European Physical Journal C</i> , <b>2012</b> , 72, 1 | 4.2 | 24 |
| 530 | Discovery of supersymmetry with degenerate mass spectrum. <i>Physical Review D</i> , <b>2006</b> , 74,   | 4.9 | 24 |
| 529 | The production of neutral kaons in Z0 decays and their Bose-Einstein correlations. <i>Zeitschrift für Physik C-Particles and Fields</i> , <b>1995</b> , 67, 389-401  |     | 24 |
| 528 | Multiplicity dependence of Bose-Einstein correlations in hadronic Z0 decays. <i>Zeitschrift für Physik C-Particles and Fields</i> , <b>1996</b> , 72, 389-398  |     | 24 |
| 527 | An improved measurement of $\pi^0$ (MZ0) using energy correlations with the OPAL detector at LEP. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>1992</b> , 276, 547-564   | 4.2 | 24 |
| 526 | Limits on a light Higgs boson in e+e- collisions at LEP. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>1990</b> , 251, 211-222  | 4.2 | 24 |
| 525 | Search for excited leptons at LEP. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>1990</b> , 244, 135-142  | 4.2 | 24 |
| 524 | Tau-lepton production and decay at Petra energies. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>1985</b> , 161, 188-196  | 4.2 | 24 |
| 523 | Search for single production of vector-like quarks decaying into in collisions at [Formula: see text] TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2016</b> , 76, 442                            | 4.2 | 24 |
| 522 | Search for the direct production of charginos and neutralinos in final states with tau leptons in collisions with the ATLAS detector. <i>European Physical Journal C</i> , <b>2018</b> , 78, 154                         | 4.2 | 23 |
| 521 | 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 |
| 520 | Forward-backward correlations and charged-particle azimuthal distributions in pp interactions using the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1                                    | 5.4 | 23 |
| 519 | Spin alignment of leading K*(892)0 mesons in hadronic Z0 decays. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>1997</b> , 412, 210-224                                    | 4.2 | 23 |
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| 399 | Measurement of flow harmonics correlations with mean transverse momentum in lead-lead and proton-lead collisions at ( $\sqrt{s_{NN}} = 5.02 \sim \hbox{TeV}$ ) with the ATLAS detector. <i>European Physical Journal C</i> , <b>2019</b> , 79, 1                                  | 4.2 | 16 |
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| 389 | Search for invisibly decaying Higgs bosons in $e^+e^- \rightarrow Z^0 h^0$ production at $\sqrt{s}=183 \pm 0.9$ GeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2010</b> , 682, 381-390   | 4.2 | 15 |

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| 387 | Search for Higgs bosons and new particles decaying into two photons at $\sqrt{s}=183$ GeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>1998</b> , 437, 218-230   | 4.2 | 15 |
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| 300 | Lepton pair production in double tagged two-photon interactions. <i>Zeitschrift für Physik C-Particles and Fields</i> , <b>1986</b> , 30, 545-549   |     | 12 |
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| 173 | Top-quark mass measurement in the all-hadronic $(\text{t} \rightarrow \text{bb})$ decay channel at $(\sqrt{s}=8)\text{TeV}$ with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1   | 5.4 | 6 |

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| 172 | Pion and proton showers in the CALICE scintillator-steel analogue hadron calorimeter. <i>Journal of Instrumentation</i> , <b>2015</b> , 10, P04014-P04014  | 1   | 6 |
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| 170 | Effects of high-energy particle showers on the embedded front-end electronics of an electromagnetic calorimeter for a future lepton collider. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2011</b> , 654, 97-109 | 1.2 | 6 |
| 169 | Measurement of the longitudinal cross-section using the direction of the thrust axis in hadronic events at LEP. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>1998</b> , 440, 393-402   | 4.2 | 6 |
| 168 | Search for a massive Di-photon resonance at $\sqrt{s} = 91 \pm 72$ GeV. <i>European Physical Journal C</i> , <b>1998</b> , 1, 31-43  | 4.2 | 6 |
| 167 | Fine-granularity electromagnetic calorimeter using plastic scintillator strip-array. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2006</b> , 557, 460-478   | 1.2 | 6 |
| 166 | QCD coherence and correlations of particles with restricted momenta in hadronic Z decays. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2006</b> , 638, 30-38   | 4.2 | 6 |
| 165 | Measurement of neutral-current four-fermion production at LEP2. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2002</b> , 544, 259-273   | 4.2 | 6 |
| 164 | Beam test of a prototype fine-granularity scintillator tile EM calorimeter. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2005</b> , 546, 535-543  | 1.2 | 6 |
| 163 | Test results on hybrid photodiodes. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>1999</b> , 421, 512-521  | 1.2 | 6 |
| 162 | Tests of photon-detection devices in strong magnetic fields. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>1995</b> , 366, 71-75   | 1.2 | 6 |
| 161 | Determination of an upper limit for the mass of the $\tilde{\nu}_{\tau}$ at LEP. <i>Zeitschrift für Physik C-Particles and Fields</i> , <b>1995</b> , 65, 183-188  |     | 6 |
| 160 | Determination of event shape distributions and $\tilde{\nu} b s$ from $(Z^0 \rightarrow b\bar{b})$ events at LEP. <i>Zeitschrift für Physik C-Particles and Fields</i> , <b>1995</b> , 65, 31-45   |     | 6 |
| 159 | Measurement of the branching fraction of the radiative decay $\tilde{\nu} \rightarrow \gamma \nu$ <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>1996</b> , 388, 437-449   | 4.2 | 6 |
| 158 | Search for scalar top and scalar bottom quarks using the OPAL detector at LEP. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>1996</b> , 389, 197-210  | 4.2 | 6 |
| 157 | Measurement of $(\Gamma(Z^0 \rightarrow b\bar{b})/\Gamma(Z^0 \rightarrow \text{hadrons}))$ using impact parameters and leptons. <i>Zeitschrift für Physik C-Particles and Fields</i> , <b>1994</b> , 61, 357-369   |     | 6 |
| 156 | QCD coherence studies using two particle azimuthal correlations. <i>Zeitschrift für Physik C-Particles and Fields</i> , <b>1993</b> , 58, 207-217  |     | 6 |
| 155 | Final results on muon and tau pair production by the JADE Collaboration at PETRA. <i>Zeitschrift für Physik C-Particles and Fields</i> , <b>1990</b> , 46, 547-553   |     | 6 |

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| 154 | Measurement of the branching fractions for $B \rightarrow e\bar{\nu}_e \mu \mu$ and $B \rightarrow \mu \mu$ . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>1986</b> , 182, 216-220  | 4.2 | 6 |
| 153 | An underground search for fractionally charged penetrating particles. <i>Lettere Al Nuovo Cimento Rivista Internazionale Della Societ  Italiana Di Fisica</i> , <b>1984</b> , 41, 604-608   |     | 6 |
| 152 | A measurement of the mean semi-muonic branching ratio of B hadrons produced at petra. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>1985</b> , 163, 277-281  | 4.2 | 6 |
| 151 | Search for ( $\overline{t}t$ ) 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 |
| 150 | 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 |
| 149 | Search for new phenomena in final states with b-jets and missing transverse momentum in ( $\sqrt{s}$ ) = 13 TeV pp collisions with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1  | 5.4 | 6 |
| 148 | Search for pair production of third-generation scalar leptoquarks decaying into a top quark and a lepton 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 |
| 147 | Measurement of the ( $Z \rightarrow \nu \overline{\nu}$ ) 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 |
| 146 | Search for exclusive Higgs and Z boson decays to $\tau\tau$ and $\tau\nu$ with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1  | 5.4 | 6 |
| 145 | Measurement of jet activity produced in top-quark events with an electron, a muon and two -tagged jets in the final state in collisions at [Formula: see text] TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2017</b> , 77, 220                          | 4.2 | 5 |
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| 143 | 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 |
| 142 | Evaluation of KEK n-in-p planar pixel sensor structures for very high radiation environments with testbeam. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2014</b> , 765, 125-129 | 1.2 | 5 |
| 141 | Measurement of b-hadron pair production with the ATLAS detector in proton-proton collisions at ( $\sqrt{s}$ ) = 8 TeV. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1  | 5.4 | 5 |
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| 139 | Photonic events with large missing energy in e+e- collisions at. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>1997</b> , 391, 210-220   | 4.2 | 5 |
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| 137 | Determination of the production rate of D*0 mesons and of the ratio V/(V+P) in (Z^0 to cbar c) decays. <i>European Physical Journal C</i> , <b>1998</b> , 5, 1-17   | 4.2 | 5 |

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| 135 | Multi-photon final states in $e+e^-$ collisions at $\sqrt{s}=130-172$ GeV. <i>European Physical Journal C</i> , <b>1998</b> , 1, 21-30   | 4.2 | 5 |
| 134 | Search for invisibly decaying Higgs bosons with large decay width using the OPAL detector at LEP. <i>European Physical Journal C</i> , <b>2007</b> , 49, 457-472   | 4.2 | 5 |
| 133 | Inclusive jet production in photon-photon collisions at $\sqrt{s}$ from 189 to 209 GeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2008</b> , 658, 185-192   | 4.2 | 5 |
| 132 | Development of Multi-Pixel Photon Counters <b>2006</b> ,   |     | 5 |
| 131 | Investigation of the string effect using final state photons. <i>Zeitschrift für Physik C-Particles and Fields</i> , <b>1995</b> , 68, 531-540   |     | 5 |
| 130 | Measurement of the $B \rightarrow h \ell \bar{\ell} + h \ell \nu$ and $B \rightarrow h \ell \bar{\ell} + h \ell \nu$ branching ratios. <i>Zeitschrift für Physik C-Particles and Fields</i> , <b>1995</b> , 68, 555-567                                  |     | 5 |
| 129 | Comparisons of the properties of final state photons in hadronic $Z^0$ decays with predictions from matrix element calculations. <i>Zeitschrift für Physik C-Particles and Fields</i> , <b>1995</b> , 67, 15-26  |     | 5 |
| 128 | Observation of exclusive decays of B mesons at LEP. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>1994</b> , 337, 196-206   | 4.2 | 5 |
| 127 | An underground search for anomalous slow penetrating particles. <i>Lettere Al Nuovo Cimento Rivista Internazionale Della Società Italiana Di Fisica</i> , <b>1984</b> , 41, 315-319  |     | 5 |
| 126 | Multi-photon final states in $e+e^-$ collisions at $\sqrt{s}=130-172$ GeV <b>1998</b> , 1, 21  |     | 5 |
| 125 | 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 |
| 124 | Search for the $HH \rightarrow (\overline{b}b)$ process via vector-boson fusion production using 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 |
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| 121 | Search for pair production of scalar leptoquarks decaying into first- or second-generation leptons and top quarks in proton-proton collisions at $(\sqrt{s}) = 13$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2021</b> , 81, 1 | 4.2 | 5 |
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| 117 | 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 |
| 116 | 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 |
| 115 | Performance study of SKIROC2/A ASIC for ILD Si-W ECAL. <i>Journal of Instrumentation</i> , <b>2018</b> , 13, C03015-C03015  | 5   | 5 |
| 114 | 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 |
| 113 | Construction and response of a highly granular scintillator-based electromagnetic calorimeter. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2018</b> , 887, 150-168                    | 1.2 | 4 |
| 112 | Measurement of jet activity in top quark events using the $e^+e^-$ final state with two b-tagged jets in pp collisions at $(\sqrt{s}=8)$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1   | 5.4 | 4 |
| 111 | Irradiation and testbeam of KEK/HPK planar p-type pixel modules for HL-LHC. <i>Journal of Instrumentation</i> , <b>2015</b> , 10, C06008-C06008   | 1   | 4 |
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| 109 | An upper limit on the branching ratio for $\Xi$ decays into seven charged particles. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>1997</b> , 404, 213-222   | 4.2 | 4 |
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| 106 | Measurement of the average b-baryon lifetime and the product branching ratio $(\Gamma(b \rightarrow \Lambda_b) \cdot BR(\Lambda_b \rightarrow \Lambda e^+ \bar{\nu}_e))$ . <i>Zeitschrift für Physik C-Particles and Fields</i> , <b>1995</b> , 69, 195-214                           |     | 4 |
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| 104 | A comparison of measured jet cross sections with QCD calculations for $e^+e^-$ annihilation. <i>Zeitschrift für Physik C-Particles and Fields</i> , <b>1991</b> , 49, 29-41   |     | 4 |
| 103 | Search for massive magnetic monopoles using plastic track detectors characteristics of CR-39 plastic for detecting monopoles. <i>International Journal of Radiation Applications and Instrumentation Part D, Nuclear Tracks and Radiation Measurements</i> , <b>1984</b> , 8, 609-615 |     | 4 |
| 102 | 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 |
| 101 | Alignment of the ATLAS Inner Detector in Run 2. <i>European Physical Journal C</i> , <b>2020</b> , 80, 1  | 4.2 | 4 |

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| 100 | Measurement of $J/\psi$ production in association with a $W$ boson with pp data at 8 TeV. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1   | 5-4 | 4 |
| 99  | Search for a massive Di-photon resonance at $\sqrt{s} = 91 \div 72$ GeV <b>1998</b> , 1, 31   |     | 4 |
| 98  | Search for unstable heavy and excited leptons in $e+e$ collisions at $\sqrt{s} = 170$ -172 GeV <b>1998</b> , 1, 45  |     | 4 |
| 97  | Beam test performance of the highly granular SiW-ECAL technological prototype for the ILC. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2020</b> , 950, 162969 | 1.2 | 4 |
| 96  | Measurement of the inclusive cross-section for the production of jets in association with a Z boson in proton-proton collisions at 8 TeV using the ATLAS detector. <i>European Physical Journal C</i> , <b>2019</b> , 79, 1                                   | 4-2 | 4 |
| 95  | 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 |
| 94  | 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 |
| 93  | 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 |
| 92  | 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 |
| 91  | DHCAL with minimal absorber: measurements with positrons. <i>Journal of Instrumentation</i> , <b>2016</b> , 11, P05008-P05008   |     | 3 |
| 90  | 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 |
| 89  | Search for excited electrons singly produced in proton-proton collisions at $\sqrt{s} \sim 13$ TeV with the ATLAS experiment at the LHC. <i>European Physical Journal C</i> , <b>2019</b> , 79,   | 4-2 | 3 |
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| 87  | Beam test results of a high-granularity tile/fiber electromagnetic calorimeter. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2009</b> , 600, 398-407           | 1.2 | 3 |
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| 85  | Performance of a shower maximum detector with avalanche photodiode readout. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2008</b> , 589, 370-382               | 1.2 | 3 |
| 84  | A measurement of the rate of charm production in W decays. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2000</b> , 490, 71-86   | 4-2 | 3 |
| 83  | Measurement of three-jet distributions sensitive to the gluon spin in $e^+e^-$ annihilations at ( $\sqrt{s} = 91$ ) GeV. <i>Zeitschrift für Physik C-Particles and Fields</i> , <b>1991</b> , 52, 543-550   |     | 3 |

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| 81 | A study of the electric charge distributions of quark and gluon jets in hadronic Z0 decays. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>1993</b> , 302, 523-532  | 4.2 | 3 |
| 80 | Measurement of two photon production of $\pi^0\pi^0$ <i>Zeitschrift für Physik C-Particles and Fields</i> , <b>1990</b> , 48, 393-400   |     | 3 |
| 79 | A new scanning system for large area track-etch detectors. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>1986</b> , 18, 307-310   | 1.2 | 3 |
| 78 | 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 |
| 77 | Determination of jet calibration and energy resolution in proton-proton collisions at $(\sqrt{s}=8\text{--}13\text{ TeV})$ using the ATLAS detector. <i>European Physical Journal C</i> , <b>2020</b> , 80, 1   | 4.2 | 3 |
| 76 | Measurement of the inclusive jet cross-section in proton-proton collisions at $(\sqrt{s}=7)$ TeV using 4.5 fb <sup>-1</sup> of data with the ATLAS detector <b>2015</b> , 2015, 1   |     | 3 |
| 75 | Reconstruction and identification of boosted di-jets 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 |
| 74 | Search for doubly and singly charged Higgs bosons decaying into vector bosons in multi-lepton final states with the ATLAS detector using proton-proton collisions at $(\sqrt{s})=13$ TeV. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1                       | 5.4 | 3 |
| 73 | 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 |
| 72 | 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 |
| 71 | Measurement of the $Z(\rightarrow \mu\mu)$ production 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 |
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| 68 | Anti-hyperon correlations in Z0 decay and investigation of the baryon production mechanism. <i>European Physical Journal C</i> , <b>2009</b> , 64, 609-625  | 4.2 | 2 |
| 67 | Performance studies of a lead-scintillation fiber calorimeter prototype for the linear collider detector. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>1997</b> , 385, 215-224 | 1.2 | 2 |
| 66 | The ATLAS level-1 trigger: Status of the system and first results from cosmic-ray data. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2007</b> , 581, 476-481                   | 1.2 | 2 |
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| 64 | Measurements of $R_b$ in $e^+e^-$ collisions at $\sqrt{s}$ between 182 and 209 GeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2005</b> , 609, 212-225   | 4.2 | 2 |
| 63 | Searches for prompt light gravitino signatures in $e^+e^-$ collisions at $\sqrt{s}=189$ GeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2001</b> , 501, 12-27                                      | 4.2 | 2 |
| 62 | Search for baryon and lepton number violating $Z^0$ decays. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>1999</b> , 447, 157-166   | 4.2 | 2 |
| 61 | A study of QCD structure constants and a measurement of $(\alpha_s(M_{Z^0}))$ at LEP using event shape observables. <i>Zeitschrift für Physik C-Particles and Fields</i> , <b>1995</b> , 68, 519-530   |     | 2 |
| 60 | Limits on the Flux of Supermassive Relics. <i>Europhysics Letters</i> , <b>1987</b> , 3, 39-44   | 1.6 | 2 |
| 59 | Measurement of the $(\overline{t})$ production cross-section using $(e\mu)$ events with $(b)$ -tagged jets in $(pp)$ collisions at $(\sqrt{s}=7)$ and 8 TeV with the ATLAS detector <b>2014</b> , 74, 1  |     | 2 |
| 58 | Search for new phenomena in final states with an energetic jet and large missing transverse momentum in $pp$ collisions at $(\sqrt{s}=8\sim)$ TeV with the ATLAS detector <b>2015</b> , 75, 1  |     | 2 |
| 57 | Search for R-parity-violating supersymmetry in a final state containing leptons and many jets with the ATLAS experiment using $(\sqrt{s} = 13\text{fb}^{-1})$ proton-proton collision data. <i>European Physical Journal C</i> , <b>2021</b> , 81, 1 | 4.2 | 2 |
| 56 | 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 |
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| 52 | 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 |
| 51 | Search for supersymmetry in events with four or more charged leptons in 139 $\text{fb}^{-1}$ of $(\sqrt{s}) = 13$ TeV $pp$ collisions with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1                         | 5.4 | 2 |
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| 40 | Search for production of (WW/WZ) resonances decaying to a lepton, neutrino and jets in (pp) collisions at ( $\sqrt{s}=8$ ) TeV with the ATLAS detector <b>2015</b> , 75, 1  |     | 1 |
| 39 | Measurement of the charge asymmetry in top-quark pair production in the lepton-plus-jets final state in pp collision data at ( $\sqrt{s}=8, \text{TeV}$ ) with the ATLAS detector <b>2016</b> , 76, 1   |     | 1 |
| 38 | Measurement of the W-boson mass in pp collisions at ( $\sqrt{s}=7, \text{TeV}$ ) with the ATLAS detector <b>2018</b> , 78, 1  |     | 1 |
| 37 | Search for doubly charged Higgs boson production in multi-lepton final states with the ATLAS detector using proton-proton collisions at ( $\sqrt{s}=13, \text{TeV}$ ) <b>2018</b> , 78, 1   |     | 1 |
| 36 | Search for top squarks in events with a Higgs or Z boson using 139 fb <sup>-1</sup> 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 |
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| 12 | Measurement of the energy response of the ATLAS calorimeter to charged pions from $W^{\pm} \rightarrow \tau^{\pm} \rightarrow \pi^{\pm} \nu_{\tau} \nu_{\tau}$ events in Run 2 data. <i>European Physical Journal C</i> , <b>2022</b> , 82, 1  | 4.2 | 0 |
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