

# Eduard Boos

## List of Publications by Year in descending order

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Version: 2024-02-01

495  
papers

18,355  
citations

17440

63  
h-index

25787

108  
g-index

517  
all docs

517  
docs citations

517  
times ranked

9540  
citing authors

#	ARTICLE	IF	CITATIONS
1	Precise determination of the mass of the Higgs boson and tests of compatibility of its couplings with the standard model predictions using proton collisions at 7 and 8 TeV. European Physical Journal C, 2015, 75, 212.	3.9	541
2	Event generator tunes obtained from underlying event and multiparton scattering measurements. European Physical Journal C, 2016, 76, 155.	3.9	499
3	CompHEP 4.4"automatic computations from Lagrangians to events. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2004, 534, 250-259.	1.6	453
4	FCC-ee: The Lepton Collider. European Physical Journal: Special Topics, 2019, 228, 261-623.	2.6	424
5	FCC-hh: The Hadron Collider. European Physical Journal: Special Topics, 2019, 228, 755-1107.	2.6	367
6	Combined measurements of Higgs boson couplings in proton-proton collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2019, 79, 421.	3.9	355
7	FCC Physics Opportunities. European Physical Journal C, 2019, 79, 1.	3.9	346
8	Observation of the diphoton decay of the Higgs boson and measurement of its properties. European Physical Journal C, 2014, 74, 3076.	3.9	342
9	Observation of a new boson with mass near 125 GeV in pp collisions at $\sqrt{s}=7$ and 8 TeV. Journal of High Energy Physics, 2013, 2013, 1.	4.7	320
10	Search for dark matter, extra dimensions, and unparticles in monojet events in proton-proton collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2015, 75, 235.	3.9	320
11	Searches for electroweak production of charginos, neutralinos, and sleptons decaying to leptons and W, Z, and Higgs bosons in pp collisions at 8 TeV. European Physical Journal C, 2014, 74, 3036.	3.9	241
12	Extraction and validation of a new set of CMS pythia8 tunes from underlying-event measurements. European Physical Journal C, 2020, 80, 4.	3.9	198
13	Measurement of the differential cross section for top quark pair production in pp collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2015, 75, 542.	3.9	191
14	Search for heavy neutrinos and W bosons with right-handed couplings in proton-proton collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2014, 74, 3149.	3.9	179
15			

#	ARTICLE	IF	CITATIONS
19	Search for supersymmetry in hadronic final states with missing transverse energy using the variables $\hat{L}_T$ and b-quark multiplicity in pp collisions at $\sqrt{s} = 8 \text{ TeV}$ . European Physical Journal C, 2013, 73, 2568.	3.9	147
20	Evidence for the 125 GeV Higgs boson decaying to a pair of $\tilde{l}$ , leptons. Journal of High Energy Physics, 2014, 2014, 1.	4.7	123
21	Precision luminosity measurement in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$ in 2015 and 2016 at CMS. European Physical Journal C, 2021, 81, 800.	3.9	123
22	Measurements of inclusive W and Z cross sections in pp collisions at $\sqrt{s} = 7 \text{ TeV}$ . Journal of High Energy Physics, 2011, 2011, 1.	4.7	122
23	Searches for long-lived charged particles in pp collisions at $\sqrt{s} = 7$ and 8 TeV. Journal of High Energy Physics, 2013, 2013, 1.	4.7	118
24	HE-LHC: The High-Energy Large Hadron Collider. European Physical Journal: Special Topics, 2019, 228, 1109-1382.	2.6	108
25	Charged-particle nuclear modification factors in PbPb and pPb collisions at $\sqrt{s_{NN}} = 5.02 \text{ TeV}$ . Journal of High Energy Physics, 2017, 2017, 1.	4.7	103
26	Measurements of properties of the Higgs boson decaying into the four-lepton final state in pp collisions at $\sqrt{s} = 13 \text{ TeV}$ . Journal of High Energy Physics, 2017, 2017, 1.	4.7	101
27	Search for new physics in the multijet and missing transverse momentum final state in proton-proton collisions at $\sqrt{s} = 8 \text{ TeV}$ . Journal of High Energy Physics, 2014, 2014, 1.	4.7	100
28	Leptoquark pair production in hadronic interactions. Zeitschrift für Physik C-Particles and Fields, 1997, 76, 137-153.	1.5	98
29	Search for new phenomena with the $M_{T2}$ variable in the all-hadronic final state produced in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$ . European Physical Journal C, 2017, 77, 710.	3.9	98
30	Measurement of the underlying event activity at the LHC with $\sqrt{s} = 7 \text{ TeV}$ and comparison with $\sqrt{s} = 0.9 \text{ TeV}$ . Journal of High Energy Physics, 2011, 2011, 1.	4.7	97
31	Searches for invisible decays of the Higgs boson in pp collisions at $\sqrt{s} = 7, 8, \text{ and } 13 \text{ TeV}$ . Journal of High Energy Physics, 2017, 2017, 1.	4.7	95
32	Search for a Higgs boson in the mass range from 145 to 1000 GeV decaying to a pair of W or Z bosons. Journal of High Energy Physics, 2015, 2015, 1.	4.7	92
33	Measurements of differential and double-differential Drell-Yan cross sections in proton-proton collisions at $\sqrt{s} = 8 \text{ TeV}$ . European Physical Journal C, 2015, 75, 147.	3.9	88
34	Search for high-mass resonances in dilepton final states in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$ . Journal of High Energy Physics, 2018, 2018, 1.	4.7	86
35	Study of double parton scattering using W + 2-jet events in proton-proton collisions at $\sqrt{s} = 7 \text{ TeV}$ . Journal of High Energy Physics, 2014, 2014, 1.	4.7	85
36	Search for massive resonances in dijet systems containing jets tagged as W or Z boson decays in pp collisions at $\sqrt{s} = 8 \text{ TeV}$ . Journal of High Energy Physics, 2014, 2014, 1.	4.7	85

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37	Study of the production of charged pions, kaons, and protons in pPb collisions at $\sqrt{s_{NN}} = 5.02$ TeV. European Physical Journal C, 2014, 74, 2847.	3.9	85
38	Performance of the CMS Level-1 trigger in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of Instrumentation, 2020, 15, P10017-P10017.	1.2	84
39	Measurement of the differential cross section and charge asymmetry for inclusive $\mathit{p} \rightarrow \mathit{W}^{\pm} + X$ production at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2016, 76, 469.	3.9	83
40	Measurement of prompt and nonprompt charmonium suppression in $\text{PbPb}$ collisions at $5.02$ TeV. European Physical Journal C, 2018, 78, 509.	3.9	83
41	Suppression and azimuthal anisotropy of prompt and nonprompt $\mathit{J}/\psi$ production in PbPb collisions at $\sqrt{s_{NN}} = 2.76$ TeV. European Physical Journal C, 2017, 77, 252.	3.9	82
42	Search for narrow and broad dijet resonances in proton-proton collisions at $\sqrt{s} = 13$ TeV and constraints on dark matter mediators and other new particles. Journal of High Energy Physics, 2018, 2018, 1.	4.7	82
43	Search for neutral MSSM Higgs bosons decaying to a pair of tau leptons in pp collisions. Journal of High Energy Physics, 2014, 2014, 1.	4.7	81
44	Search for a charged Higgs boson in pp collisions at $s = 8$ TeV. Journal of High Energy Physics, 2015, 2015, 1.	4.7	81
45	Search for physics beyond the standard model in dilepton mass spectra in proton-proton collisions at $s = 8$ TeV. Journal of High Energy Physics, 2015, 2015, 1.	4.7	78
46	Search for production of four top quarks in final states with same-sign or multiple leptons in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2020, 80, 75.	3.9	78
47	Studies of azimuthal dihadron correlations in ultra-central PbPb collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Journal of High Energy Physics, 2014, 2014, 1.	4.7	77
48	Study of exclusive two-photon production of $W+W\gamma$ in pp collisions at $\sqrt{s} = 7$ TeV and constraints on anomalous quartic gauge couplings. Journal of High Energy Physics, 2013, 2013, 1.	4.7	75
49	Studies of dijet transverse momentum balance and pseudorapidity distributions in pPb collisions at $\sqrt{s_{NN}} = 5.02$ TeV. European Physical Journal C, 2014, 74, 1.	3.9	75
50	Measurement of the $W^+W^-$ cross section in pp collisions at $\sqrt{s} = 8$ TeV and limits on anomalous gauge couplings. European Physical Journal C, 2016, 76, 401.	3.9	74
51	Measurement of the $X(3872)$ production cross section via decays to $J/\psi + \gamma$ in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2013, 2013, 1.	4.7	73
52	Search for a standard model Higgs boson produced in association with a top-quark pair and decaying to bottom quarks using a matrix element method. European Physical Journal C, 2015, 75, 251.	3.9	73
53	Search for additional neutral MSSM Higgs bosons in the $\tilde{t}, \tilde{t}^*$ final state in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	73
54	Measurement of the t-channel single-top-quark production cross section and of the $ V_{tb} $ CKM matrix element in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2014, 2014, 1.	4.7	70

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55	Searches for physics beyond the standard model with the $M_{T2}$ variable in hadronic final states with and without disappearing tracks in proton-proton collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2020, 80, 3.	3.9	70
56	Search for massive resonances decaying into pairs of boosted bosons in semi-leptonic final states at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2014, 2014, 1.	4.7	69
57	Search for a standard-model-like Higgs boson with a mass in the range 145 to 1000 GeV at the LHC. European Physical Journal C, 2013, 73, 2469.	3.9	68
58	Measurement of the differential and double-differential Drell-Yan cross sections in proton-proton collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2013, 2013, 1.	4.7	68
59	Measurement of the inclusive 3-jet production differential cross section in proton-proton collisions at 7 TeV and determination of the strong coupling constant in the TeV range. European Physical Journal C, 2015, 75, 186.	3.9	68
60	Measurement of the $\sigma(\text{t}\bar{\text{t}})$ production cross section, the top quark mass, and the strong coupling constant using dilepton events in pp collisions at. European Physical Journal C, 2019, 79, 368.	3.9	68
61	Search for high mass dijet resonances with a new background prediction method in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	4.7	66
62	Measurement of differential cross sections for the production of a pair of isolated photons in pp collisions at $\sqrt{s}=7$ TeV. European Physical Journal C, 2014, 74, 3129.	3.9	65
63	Search for new physics in same-sign dilepton events in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2016, 76, 439.	3.9	64
64	Search for electroweak production of charginos and neutralinos in multilepton final states in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	63
65	Measurement of the $W+W\gamma$ cross section in pp collisions at $\sqrt{s} = 7$ TeV and limits on anomalous $WW\tilde{\chi}^0$ and $WWZ$ couplings. European Physical Journal C, 2013, 73, 1.	3.9	62
66	Measurement of differential cross sections for Higgs boson production in the diphoton decay channel in pp collisions at $\sqrt{s}=8$ TeV. European Physical Journal C, 2016, 76, 13.	3.9	62
67	Search for dark matter produced with an energetic jet or a hadronically decaying W or Z boson at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	62
68	Measurement of the inelastic proton-proton cross section at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	62
69	Search for resonant and nonresonant new phenomena in high-mass dilepton final states at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2021, 2021, 1.	4.7	62
70	Measurement of prompt $J/\psi$ pair production in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2014, 2014, 1.	4.7	61
71	Measurement of the ratio of the inclusive 3-jet cross section to the inclusive 2-jet cross section in pp collisions at $\sqrt{s} = 7$ TeV and first determination of the strong coupling constant in the TeV range. European Physical Journal C, 2013, 73, 1.	3.9	60
72	Complete calculations of $W\bar{b}$ and $W\bar{b}+j$ jet production at Tevatron and LHC: Probing anomalous $Wtb$ couplings in single-top production. European Physical Journal C, 1999, 11, 473-484.	3.9	59

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73	Studies of jet mass in dijet and W/Z + jet events. Journal of High Energy Physics, 2013, 2013, 1.	4.7	58
74	Measurement of the weak mixing angle using the forward–backward asymmetry of Drell–Yan events in $\mathit{pp}$ collisions at 8 TeV. European Physical Journal C, 2018, 78, 701.	3.9	58
75	Search for physics beyond the standard model in events with two leptons of same sign, missing transverse momentum, and jets in proton–proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2017, 77, 578.	3.9	57
76	Combined search for electroweak production of charginos and neutralinos in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	57
77	Measurements of Higgs boson properties in the diphoton decay channel in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	57
78	Event activity dependence of $\Upsilon$ (nS) production in $\sqrt{s} = 5.02$ TeV pPb and $\sqrt{s} = 2.76$ TeV pp collisions. Journal of High Energy Physics, 2014, 2014, 1.	4.7	56
79	Measurement of masses in the $\overline{\mathit{tt}}$ system by kinematic endpoints in pp collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2013, 73, 2494.	3.9	55
80	Measurement of associated W + charm production in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2014, 2014, 1.	4.7	55
81	Measurement of the double-differential inclusive jet cross section in proton–proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2016, 76, 451.	3.9	55
82	Constraints on parton distribution functions and extraction of the strong coupling constant from the inclusive jet cross section in pp collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2015, 75, 288.	3.9	54
83	Measurement and QCD analysis of double-differential inclusive jet cross sections in pp collisions at $s = 8$ TeV and cross section ratios to 2.76 and 7 TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	54
84	Search for charged Higgs bosons in the $H_{\pm} \rightarrow \tau^{\pm} \nu_{\tau}$ decay channel in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	4.7	54
85	Search for supersymmetry in proton-proton collisions at 13 TeV in final states with jets and missing transverse momentum. Journal of High Energy Physics, 2019, 2019, 1.	4.7	54
86	Evidence for Higgs boson decay to a pair of muons. Journal of High Energy Physics, 2021, 2021, 1.	4.7	54
87	Measurement of prompt and nonprompt $J/\psi$ production in $\mathit{pp}$ and $\mathit{pPb}$ collisions at $\sqrt{s} = 5.02$ TeV. European Physical Journal C, 2017, 77, 269.	3.9	53
88	Polarisation in sfermion decays: determining $a_{\text{net}}$ and trilinear couplings. European Physical Journal C, 2003, 30, 395-407.	3.9	52
89	Measurement of the $\overline{\mathit{tt}}$ production cross section in the dilepton channel in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2014, 2014, 1.	4.7	52
90	Measurement of double-differential cross sections for top quark pair production in pp collisions at $\sqrt{s} = 8$ TeV and impact on parton distribution functions. European Physical Journal C, 2017, 77, 459.	3.9	52

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91	Measurements of the $\sigma(\text{pp} \rightarrow \text{Z}\gamma\text{Z})$ production cross section and the $\text{BR}(\text{Z} \rightarrow 4\ell)$ branching fraction, and constraints on anomalous triple gauge couplings at. European Physical Journal C, 2018, 78, 165.	3.9	52
92	Search for the associated production of the Higgs boson with a top-quark pair. Journal of High Energy Physics, 2014, 2014, 1.	4.7	51
93	Study of the underlying event at forward rapidity in pp collisions at $\sqrt{s}=0.9, 2.76, 7, 13$ TeV. Journal of High Energy Physics, 2013, 2013, 1.	4.7	50
94	Search for a heavy pseudoscalar boson decaying to a Z and a Higgs boson at $\sqrt{s}=13$ TeV. European Physical Journal C, 2019, 79, 564.	3.9	50
95	Search for leptonic decays of $W^{\pm 2}$ bosons in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	4.7	49
96	Measurement of pseudorapidity distributions of charged particles in proton-proton collisions at $\sqrt{s} = 8$ TeV by the CMS and TOTEM experiments. European Physical Journal C, 2014, 74, 1.	3.9	49
97	Search for new physics in events with same-sign dileptons and jets in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2014, 2014, 1.	4.7	48
98	Observation of $\Upsilon(1S)$ pair production in proton-proton collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	48
99	Search for vector-like quarks in events with two oppositely charged leptons and jets in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2019, 79, 364.	3.9	48
100	Measurement of the cross section and angular correlations for associated production of a Z boson with b hadrons in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2013, 2013, 1.	4.7	47
101	Search for disappearing tracks in proton-proton collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2015, 2015, 1.	4.1	46
102	Search for disappearing tracks in proton-proton collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2015, 2015, 1.	4.7	46
103	Search for third-generation scalar leptoquarks decaying to a top quark and a $\tau$ , lepton at $\sqrt{s}=13$ TeV. European Physical Journal C, 2018, 78, 707.	3.9	46
104	Minimal supersymmetric standard model Higgs bosons in the intense-coupling regime. Physical Review D, 2002, 66, .	4.7	45
105	Search for microscopic black holes in pp collisions at $\sqrt{s}=8$ TeV. Journal of High Energy Physics, 2013, 2013, 1.	4.7	44
106	Search for a light charged Higgs boson decaying to $c\bar{s}$ in pp collisions at $\sqrt{s}=8$ TeV. Journal of High Energy Physics, 2015, 2015, 1-37.	4.7	44
107	Search for decays of stopped long-lived particles produced in proton-proton collisions at $\sqrt{s}=8$ TeV. European Physical Journal C, 2015, 75, 151.	3.9	44
108	Search for standard model production of four top quarks with same-sign and multilepton final states in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2018, 78, 140.	3.9	44



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109	Measurement of top quark-antiquark pair production in association with a W or Z boson in pp collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2014, 74, 3060.	3.9	43
110	Identification techniques for highly boosted W bosons that decay into hadrons. Journal of High Energy Physics, 2014, 2014, 1.	4.7	43
111	Constraints on the pMSSM, AMSB model and on other models from the search for long-lived charged particles in proton-proton collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2015, 75, 325.	3.9	43
112	Search for natural and split supersymmetry in proton-proton collisions at $\sqrt{s} = 13$ TeV in final states with jets and missing transverse momentum. Journal of High Energy Physics, 2018, 2018, 1.	4.7	43
113	Evidence for exclusive $\tilde{\chi}_3^0 \rightarrow W + W$ production and constraints on anomalous quartic gauge couplings in pp collisions at $\sqrt{s} = 7$ and 8 TeV. Journal of High Energy Physics, 2016, 2016, 1.	4.7	42
114	Search for vector-like T and B quark pairs in final states with leptons at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	42
115	Search for low mass vector resonances decaying into quark-antiquark pairs in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	42
116	Measurement of the $t \bar{t} \tilde{A}^0$ production cross section in the $e \mu$ channel in proton-proton collisions at $\sqrt{s} = 7$ and 8 TeV. Journal of High Energy Physics, 2016, 2016, 1.	4.7	41
117	Measurement of the $t \bar{t} \tilde{A}^0$ production cross section in the all-jets final state in pp collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2016, 76, 128.	3.9	41
118	Search for third-generation scalar leptoquarks and heavy right-handed neutrinos in final states with two tau leptons and two jets in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	41
119	Measurement of properties of $B_s^0 \rightarrow \tau^+ \tau^-$ decays and search for $B_s^0 \rightarrow \tau^+ \tau^-$ with the CMS experiment. Journal of High Energy Physics, 2020, 2020, 1.	4.7	41
120	Search for charged Higgs bosons decaying into a top and a bottom quark in the all-jet final state of pp collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	4.7	41
121	Measurement of the $t \bar{t} \tilde{A}^0$ production cross section using events in the $e \mu$ final state in pp collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2017, 77, 172.	3.9	40
122	Search for new physics in dijet angular distributions using proton-proton collisions at $\sqrt{s} = 13$ TeV and constraints on dark matter and other models. European Physical Journal C, 2018, 78, 789.	3.9	40
123	Measurement of the top quark mass in the all-jets final state at $\sqrt{s} = 13$ TeV and combination with the lepton+jets channel. European Physical Journal C, 2019, 79, 313.	3.9	40
124	Search for heavy Majorana neutrinos in same-sign dilepton channels in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	4.7	40
125	Measurement of the Higgs boson production rate in association with top quarks in final states with electrons, muons, and hadronically decaying tau leptons at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2021, 81, 378.	3.9	40
126	Detection of the neutral MSSM Higgs bosons in the intense-coupling regime at the LHC. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2004, 578, 384-393.	4.1	39



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127	Search for the standard model Higgs boson produced in association with a top-quark pair in pp collisions at the LHC. Journal of High Energy Physics, 2013, 2013, 1.	4.7	39
128	Measurement of the ZZ production cross section and search for anomalous couplings in $2\hat{a}, "2\hat{a}, "\hat{a}^2$ final states in pp collisions at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2013, 2013, 1.	4.7	39
129	Measurement of the production cross sections for a Z boson and one or more b jets in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2014, 2014, 1.	4.7	39
130	Measurement of differential cross sections for $\text{ext}\{Z\}$ Z boson production in association with jets in proton-proton collisions at $\sqrt{s} = 13, \text{ext}\{TeV\}$ $s = 13$ TeV. European Physical Journal C, 2018, 78, 965.	3.9	39
131	Complete calculations of. European Physical Journal C, 1999, 11, 473.	3.9	39
132	Search for dark matter produced in association with heavy-flavor quark pairs in proton-proton collisions at $\sqrt{s}=13, \text{ext}\{TeV\}$ $s = 13$ TeV. European Physical Journal C, 2017, 77, 845.	3.9	38
133	Search for heavy resonances that decay into a vector boson and a Higgs boson in hadronic final states at $\sqrt{s} = 13$ $s = 13$ $\text{ext}\{TeV\}$ TeV. European Physical Journal C, 2017, 77, 636.	3.9	38
134	Evidence for associated production of a Higgs boson with a top quark pair in final states with electrons, muons, and hadronically decaying l, leptons at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	38
135	Searches for third-generation squark production in fully hadronic final states in proton-proton collisions at $\sqrt{s}=8$ TeV. Journal of High Energy Physics, 2015, 2015, 1.	4.7	37
136	Measurement of the WZ production cross section in pp collisions at $\sqrt{s} = 7$ $s = 7$ and $8$ $\text{ext}\{TeV\}$ TeV and search for anomalous triple gauge couplings at $\sqrt{s} = 8, \text{ext}\{TeV\}$ $s = 8$ TeV. European Physical Journal C, 2017, 77, 236.	3.9	37
137	Search for a new scalar resonance decaying to a pair of Z bosons in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	37
138	Search for heavy Higgs bosons decaying to a top quark pair in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	4.7	37
139	Search for resonant and nonresonant Higgs boson pair production in the $b\bar{b}\hat{a}, "\hat{1}/2\hat{a}, "\hat{1}/2$ $\text{mathrm}\{b\}\overline{\text{mathrm}\{b\}}\text{mathit}\{ell\ u\ ell\ u\}$ final state in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	36
140	Search for new particles in events with energetic jets and large missing transverse momentum in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2021, 2021, 1.	4.7	36
141	Measurement of the top-quark mass in all-jets $\text{ar}\{\text{mathrm}\{t\}\}$ $t\hat{A}$ events in pp collisions at $\sqrt{s}=7$ TeV. European Physical Journal C, 2014, 74, 2758.	3.9	35
142	Search for heavy Majorana neutrinos in $e\hat{A}\pm e\hat{A}\pm$ jets and $e\hat{A}\pm \hat{1}/4\hat{A}\pm$ jets events in proton-proton collisions at $\sqrt{s}=8$ TeV. Journal of High Energy Physics, 2016, 2016, 1.	4.7	35
143	Search for anomalous Wtb couplings and flavour-changing neutral currents in t-channel single top quark production in pp collisions at $\sqrt{s}=7$ and 8 TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	35
144	Measurement of the cross section for top quark pair production in association with a W or Z boson in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	35

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145	Measurement of exclusive $\Upsilon$ photoproduction from protons in $p$ - $Pb$ collisions at $\sqrt{s_{NN}} = 5.02, \text{ext } \{\text{TeV}\}$ . European Physical Journal C, 2019, 79, 277.	3.9	35
146	Measurements of production cross sections of the Higgs boson in the four-lepton final state in proton-proton collisions at $\sqrt{s} = 13, \text{ext } \{\text{TeV}\}$ . European Physical Journal C, 2021, 81, 488.	3.9	35
147	Probe of the $Wtb$ coupling in $t\bar{t}$ pair production at linear colliders. European Physical Journal C, 2000, 16, 269-278.	3.9	34
148	Single top production in $e^+e^-$ , $e^-e^+$ , $\gamma e$ and $\gamma\gamma$ collisions. European Physical Journal C, 2001, 21, 81-91.	3.9	34
149	Searches for supersymmetry using the $M_{T2}$ variable in hadronic events produced in $pp$ collisions at 8 TeV. Journal of High Energy Physics, 2015, 2015, 1.	4.7	34
150	Measurement of $t\bar{t}$ production with additional jet activity, including $b$ quark jets, in the dilepton decay channel using $pp$ collisions at $\sqrt{s} = 8, \text{ext } \{\text{TeV}\}$ and $s = 8$ TeV. European Physical Journal C, 2016, 76, 379.	3.9	34
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166	Measurement of the triple-differential cross section for photon + jets production in proton-proton collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2014, 2014, 1.	4.7	31
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313	Measurements of differential production cross sections for a Z boson in association with jets in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	14
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332	Measurement of the underlying event activity in inclusive Z boson production in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	13
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