

Shahram Rahatlou

List of Publications by Year in descending order

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Version: 2024-02-01

621
papers

28,141
citations

5876

81
h-index

12910

131
g-index

641
all docs

641
docs citations

641
times ranked

10732
citing authors

#	ARTICLE	IF	CITATIONS
1	Observation of a Broad Structure in the J/ψ Mass Spectrum around $4.26 \text{ GeV}/c^2$. Physical Review Letters, 2005, 95, 142001.	2.9	650
2	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 $\sqrt{s} \text{ TeV}$. European Physical Journal C, 2015, 75, 212.	1.4	541
3	Event generator tunes obtained from underlying event and multiparton scattering measurements. European Physical Journal C, 2016, 76, 155.	1.4	499
4	Observation of long-range, near-side angular correlations in proton-proton collisions at the LHC. Journal of High Energy Physics, 2010, 2010, 1.	1.6	497
5	Observation of CP Violation in the B^0 Meson System. Physical Review Letters, 2001, 87, 091801.	2.9	426
6	Study of high- p_T charged particle suppression in PbPb compared to pp collisions at $\sqrt{s_{NN}} = 2.76 \text{ TeV}$. European Physical Journal C, 2012, 72, 1.	1.4	369
7	Combined measurements of Higgs boson couplings in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$. European Physical Journal C, 2019, 79, 421.	1.4	355
8	Observation of the diphoton decay of the Higgs boson and measurement of its properties. European Physical Journal C, 2014, 74, 3076.	1.4	342
9	Observation of a new boson with mass near 125 GeV in pp collisions at $\sqrt{s} = 7 \text{ TeV}$ and 8 TeV. Journal of High Energy Physics, 2013, 2013, 1.	1.6	320
10	Search for dark matter, extra dimensions, and unparticles in monojet events in proton-proton collisions at $\sqrt{s} = 8 \text{ TeV}$. European Physical Journal C, 2015, 75, 235.	1.4	320
11	The Physics of the B Factories. European Physical Journal C, 2014, 74, 1.	1.4	292
12	Evidence of a Broad Structure at an Invariant Mass of $4.32 \text{ GeV}/c^2$ in the Reaction $e^+e^- \rightarrow \psi(2S)$ Measured at BABAR. Physical Review Letters, 2007, 98, 212001.	2.9	247
13	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.	1.4	241
14	Transverse-momentum and pseudorapidity distributions of charged hadrons in pp collisions at $\sqrt{s} = 0.9 \text{ TeV}$ and 2.36 TeV. Journal of High Energy Physics, 2010, 2010, 1.	1.6	230
15	Study of $e^+e^- \rightarrow \psi(2S)$ using initial state radiation with BABAR. Physical Review D, 2006, 73, .	1.6	207
16	Evidence for D^0 - \bar{D}^0 Mixing. Physical Review Letters, 2007, 98, 211802.	2.9	205
17	Suppression of non-prompt J/ψ , prompt J/ψ , and $\Upsilon(1S)$ in PbPb collisions at $\sqrt{s_{NN}} = 2.76 \text{ TeV}$. Journal of High Energy Physics, 2012, 2012, 1.	1.6	200
18	Extraction and validation of a new set of CMS pythia8 tunes from underlying-event measurements. European Physical Journal C, 2020, 80, 4.	1.4	198

#	ARTICLE	IF	CITATIONS
19	Measurement of the differential cross section for top quark pair production in pp collisions at $\sqrt{s} = 8, \text{ext } \{\text{TeV}\}$ $s = 8$ TeV. European Physical Journal C, 2015, 75, 542.	1.4	191
20	Centrality dependence of dihadron correlations and azimuthal anisotropy harmonics in PbPb collisions at $\sqrt{s_{NN}} = 2.76 \text{ mbox}\{\text{TeV}\}$. European Physical Journal C, 2012, 72, 1.	1.4	181
21	Search for heavy neutrinos and W bosons with right-handed couplings in proton-proton collisions at $\sqrt{s} = 8, \text{ext } \{\text{TeV}\}$ $s = 8$ TeV. European Physical Journal C, 2014, 74, 3149.	1.4	179

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#	ARTICLE	IF	CITATIONS
37	Prompt and non-prompt J/ψ production in pp collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2011, 71, 1.	1.4	135
38	Observation of $Y(3940)$ production in pp collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2012, 72, 1.	2.9	133
39	A search for a doubly-charged Higgs boson in pp collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2012, 72, 1.	1.4	129
40	$\sigma(\text{e}^+\text{e}^- \rightarrow \text{W}^+\text{W}^-)$, $\sigma(\text{e}^+\text{e}^- \rightarrow \text{Z}\nu)$ and $\sigma(\text{e}^+\text{e}^- \rightarrow \text{K}^+\text{K}^-)$ cross sections at center-of-mass energies from production threshold to 4.5 GeV measured with initial-state radiation. Physical Review D, 2006, 73, .	1.6	128
41	Measurement of CP-Violating Asymmetries in B^0 Decays to CP Eigenstates. Physical Review Letters, 2001, 86, 2515-2522.	2.9	125
42	Measurement of differential top-quark-pair production cross sections in pp collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2013, 73, 1.	1.4	125
43	Evidence for the 125 GeV Higgs boson decaying to a pair of τ , leptons. Journal of High Energy Physics, 2014, 2014, 1.	1.6	123
44	Precision luminosity measurement in proton-proton collisions at $\sqrt{s} = 13, 8$ TeV in 2015 and 2016 at CMS. European Physical Journal C, 2021, 81, 800.	1.4	123
45	Structure at 2175 MeV in $\text{e}^+\text{e}^- \rightarrow \tau^+\tau^- f_0(980)$ observed via initial-state radiation. Physical Review D, 2006, 74, .	1.6	122
46	Measurements of inclusive W and Z cross sections in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2011, 2011, 1.	1.6	122
47	CMS tracking performance results from early LHC operation. European Physical Journal C, 2010, 70, 1165-1192.	1.4	120
48	Searches for long-lived charged particles in pp collisions at $\sqrt{s} = 7$ and 8 TeV. Journal of High Energy Physics, 2013, 2013, 1.	1.6	118
49	Study of $\tau \rightarrow \mu \nu \tau$ decays in pp collisions at $\sqrt{s} = 7$ TeV. Physical Review D, 2007, 75, 012001.	1.6	117
50	Search for a light charged Higgs boson in top quark decays in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	1.6	117
51	Search for resonances in exclusive $\tau \rightarrow \mu \nu \tau$ decays. Physical Review D, 2007, 75, 012001.	1.6	116
52	Observation of a Charmed Baryon Decaying to $D^0 p$ at a Mass Near 2.94 GeV/c ² . Physical Review Letters, 2007, 98, 012001.	2.9	114
53	Search for $B \rightarrow X(3872) K^+, X(3872) \tau^+ J/\psi^3$. Physical Review D, 2006, 74, .	1.6	113
54	Charged particle multiplicities in pp interactions at $\sqrt{s} = 0.9, 2.36,$ and 7 TeV. Journal of High Energy Physics, 2011, 2011, 1.	1.6	106

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73	Study of double parton scattering using $W + 2$ -jet events in proton-proton collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2014, 2014, 1.	1.6	85
74	Search for massive resonances in dijet systems containing jets tagged as W or Z boson decays in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2014, 2014, 1.	1.6	85
75	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.	1.4	85
76	Study of the $X(3872)$ and $Y(4260)$ in $B_0 \rightarrow J/\psi \bar{K}^0$ and $B_0 \rightarrow J/\psi \bar{K}^+$ decays. Physical Review D, 2006, 73, 1.6	1.6	84
77	Study of the exclusive initial-state-radiation production of the D^0 system. Physical Review D, 2007, 76, .	1.6	84
78	Performance of the CMS Level-1 trigger in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of Instrumentation, 2020, 15, P10017-P10017.	0.5	84
79	Measurement of the single-top-quark t -channel cross section in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	1.6	83
80	Measurement of the differential cross section and charge asymmetry for inclusive $\mathit{p} \rightarrow \mathit{W}^+ + X$ production at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2016, 76, 469.	1.4	83
81	Measurement of prompt and nonprompt charmonium suppression in $\sqrt{s_{NN}} = 5.02$ TeV collisions at $\sqrt{s} = 5.02$ TeV. European Physical Journal C, 2018, 78, 509.	1.4	83
82	Suppression and azimuthal anisotropy of prompt and nonprompt J/ψ production in PbPb collisions at $\sqrt{s_{NN}} = 2.76$ TeV. European Physical Journal C, 2017, 77, 252.	1.4	82
83	J/ψ and $\Upsilon(2S)$ production in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	1.6	81
84	Search for neutral MSSM Higgs bosons decaying to a pair of tau leptons in pp collisions. Journal of High Energy Physics, 2014, 2014, 1.	1.6	81
85	Search for a charged Higgs boson in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2015, 2015, 1.	1.6	81
86	Measurement of the Cabibbo-Kobayashi-Maskawa Angle β in $B^0 \rightarrow D^+ \pi^-$ Decays with a Dalitz Analysis of $D^0 \rightarrow K^+ K^- \pi^0$. Physical Review Letters, 2005, 95, 121802.	2.9	79
87	Search for physics beyond the standard model in dilepton mass spectra in proton-proton collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2015, 2015, 1.	1.6	78
88	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.	1.4	78
89	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.	1.6	77

#	ARTICLE	IF	CITATIONS
91	Study of exclusive two-photon production of $W+W\hat{a}$ in pp collisions at $\sqrt{s}=7$ TeV and constraints on anomalous quartic gauge couplings. Journal of High Energy Physics, 2013, 2013, 1.	1.6	75
92	Studies of dijet transverse momentum balance and pseudorapidity distributions in pPb collisions at $\sqrt{s_{\text{NN}}}=5.02$ TeV. European Physical Journal C, 2014, 74, 1.	1.4	75
93	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.	1.4	74
94	Measurement of the $X(3872)$ production cross section via decays to $J/\psi + \bar{\nu}\nu$ in pp collisions at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2013, 2013, 1.	1.6	73
95	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.	1.4	73
96	The SABRE project and the SABRE Proof-of-Principle. European Physical Journal C, 2019, 79, 1.	1.4	73
97	Measurements of the Absolute Branching Fractions of $B\hat{a}^0 \rightarrow K^0 X_{cc}$. Physical Review Letters, 2006, 96, 052002.	2.9	71
98	Search For T, CP, and CPT Violation in $B\hat{a}^0$ Mixing with Inclusive Dilepton Events. Physical Review Letters, 2006, 96, 251802.	2.9	71
99	Measurement of the $B\hat{a}^0 \rightarrow \rho^+ K^+$ branching fraction and study of the decay dynamics. Physical Review D, 2005, 72, .	1.6	70
100	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.	1.6	70
101	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.	1.4	70
102	Measurement of the $\overline{t}t$ production cross section in the dilepton channel in pp collisions at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	1.6	69
103	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.	1.6	69
104	Measurement of the $B\hat{a}^0 \rightarrow X$ branching fraction and photon energy spectrum using the recoil method. Physical Review D, 2008, 77, .	1.6	68
105	Search for anomalous production of multilepton events in pp collisions at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	1.6	68
106	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.	1.4	68
107	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.	1.6	68
108	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.	1.4	68

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109	Measurement of the $\sigma(\text{pp} \rightarrow t\bar{t})$ 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.	1.4	68
110	Measurement of the $\hat{\Gamma}(\text{B} \rightarrow \text{D}^* \ell^+ \ell^-)$ transition form factors at $q^2 = 11.2 \text{ GeV}^2$. Physical Review D, 2006, 74, .	1.6	67
111	Search for CP Violation in the Decays $\text{D}^0 \rightarrow \text{K}^+ \text{K}^-$ and $\text{D}^0 \rightarrow \text{K}^+ \text{K}^-$. Physical Review Letters, 2008, 100, 061803.	2.9	65
112	Long-range and short-range dihadron angular correlations in central PbPb collisions at $\sqrt{s_{NN}} = 2.76 \text{ TeV}$. Journal of High Energy Physics, 2011, 2011, 1.	1.6	65
113	Measurement of differential cross sections for the production of a pair of isolated photons in pp collisions at $\sqrt{s} = 7 \text{ TeV}$. European Physical Journal C, 2014, 74, 3129.	1.4	65
114	Search for $\text{B} \rightarrow \text{K}^* \ell^+ \ell^-$ decays with hadronic B tags. Physical Review D, 2008, 77, .	1.6	64
115	Exclusive Branching-Fraction Measurements of Semileptonic $\text{B} \rightarrow \text{K}^* \ell^+ \ell^-$ Decays into Three Charged Hadrons, $\text{B} \rightarrow \text{K}^* \ell^+ \ell^-$, and $\text{B} \rightarrow \text{K}^* \ell^+ \ell^-$. Physical Review Letters, 2008, 100, 011801.	2.9	64
116	Measurement of the sum of WW and WZ production with W+dijet events in pp collisions at $\sqrt{s} = 7 \text{ TeV}$. European Physical Journal C, 2013, 73, 2283.	1.4	64
117	Search for new physics in same-sign dilepton events in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$. European Physical Journal C, 2016, 76, 439.	1.4	64
118	Dalitz plot analysis of the decay $\text{B}^0 \rightarrow \text{K}^+ \text{K}^- \text{K}^0$. Physical Review D, 2006, 74, .	1.6	63
119	Search for electroweak production of charginos and neutralinos in multilepton final states in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$. Journal of High Energy Physics, 2018, 2018, 1.	1.6	63
120	Measurement of the $W+W\gamma$ cross section in pp collisions at $\sqrt{s} = 7 \text{ TeV}$ and limits on anomalous $WW\gamma^3$ and WWZ couplings. European Physical Journal C, 2013, 73, 1.	1.4	62
121	Measurement of differential cross sections for Higgs boson production in the diphoton decay channel in pp collisions at $\sqrt{s} = 8 \text{ TeV}$. European Physical Journal C, 2016, 76, 13.	1.4	62
122	Search for dark matter produced with an energetic jet or a hadronically decaying W or Z boson at $s = 13 \text{ TeV}$. Journal of High Energy Physics, 2017, 2017, 1.	1.6	62
123	Measurement of the inelastic proton-proton cross section at $\sqrt{s} = 13 \text{ TeV}$. Journal of High Energy Physics, 2018, 2018, 1.	1.6	62
124	Measurement of prompt J/ψ pair production in pp collisions at $s = 7 \text{ TeV}$. Journal of High Energy Physics, 2014, 2014, 1.	1.6	61
125	Measurement of the ratio of the inclusive 3-jet cross section to the inclusive 2-jet cross section in pp collisions at $\sqrt{s} = 7 \text{ TeV}$ and first determination of the strong coupling constant in the TeV range. European Physical Journal C, 2013, 73, 1.	1.4	60
126	Observation of $\text{C} \rightarrow \text{P}$ Violation in $\text{B}^0 \rightarrow \text{K}^+ \text{K}^-$. Physical Review Letters, 2007, 99, 021603.	2.9	59

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127	Measurement of the lepton charge asymmetry in inclusive W production in pp collisions at $\sqrt{s} = 7; \text{TeV}$. <i>Journal of High Energy Physics</i> , 2011, 2011, 1.	1.6	59
128	Observation of $B \rightarrow K^* K^0$ and $B \rightarrow K^* K^0$. <i>Physical Review Letters</i> , 2006, 97, 171805.	2.9	58
129	Measurement of the Branching Fraction and Photon Energy Moments of $B \rightarrow X_s \gamma$ and $ACP(B \rightarrow X_s \gamma)$. <i>Physical Review Letters</i> , 2006, 97, 171803.	2.9	58
130	Search for anomalous t production in the highly-boosted all-hadronic final state. <i>Journal of High Energy Physics</i> , 2012, 2012, 1.	1.6	58
131	Jet production rates in association with W and Z bosons in pp collisions at $\sqrt{s} = 7 \text{ TeV}$. <i>Journal of High Energy Physics</i> , 2012, 2012, 1.	1.6	58
132	Studies of jet mass in dijet and $W/Z + \text{jet}$ events. <i>Journal of High Energy Physics</i> , 2013, 2013, 1.	1.6	58
133	Nuclear effects on the transverse momentum spectra of charged particles in $p\text{Pb}$ collisions at $\sqrt{s_{NN}} = 5.02 \text{ TeV}$. <i>European Physical Journal C</i> , 2015, 75, 237.	1.4	58
134	Measurement of the weak mixing angle using the forward-backward asymmetry of Drell-Yan events in pp collisions at 8 TeV . <i>European Physical Journal C</i> , 2018, 78, 701.	1.4	58
135			

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145	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.	1.4	55
146	Determining Higgs couplings with a model-independent analysis of $h \rightarrow \tau^+ \tau^-$. Journal of High Energy Physics, 2012, 2012, 1.	1.6	54
147	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.	1.4	54
148	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.	1.6	54
149	Measurement of the χ_{c0} production cross section and the top quark mass in the dilepton channel in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2011, 2011, 1.	1.6	53
150	Measurement of prompt and nonprompt J/ψ production in pp and pp collisions at $\sqrt{s} = 5.02$ TeV. European Physical Journal C, 2017, 77, 269.	1.4	53
151	Measurement of the hadronic form factor in $D^0 \rightarrow \tau^+ \tau^-$ production. Physical Review D, 2007, 76, .	1.6	52
152	Measurement of the τ production cross section in the dilepton channel in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2014, 2014, 1.	1.6	52
153	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.	1.4	52
154	Measurements of the $pp \rightarrow Z Z$ production cross section and the $Z \rightarrow 4\ell$ branching fraction, and constraints on anomalous triple gauge couplings at. European Physical Journal C, 2018, 78, 165.	1.4	52
155	Study of $B^0 \rightarrow \tau^+ \tau^-$ and constraints on the CKM angle ϕ_1 . Physical Review D, 2007, 76, .	1.6	51
156	Search for exclusive or semi-exclusive $\tau^+ \tau^-$ production and observation of exclusive and semi-exclusive e^+e^- production in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	1.6	51
157	Search for the associated production of the Higgs boson with a top-quark pair. Journal of High Energy Physics, 2014, 2014, 1.	1.6	51
158	Determination of the form factors for the decay $B^0 \rightarrow \tau^+ \tau^-$ of the CKM matrix element V_{cb} . Physical Review D, 2008, 77, .	1.6	50
159	First measurement of the underlying event activity at the LHC with $\sqrt{s} = 0.9$ TeV. European Physical Journal C, 2010, 70, 555-572.	1.4	50
160	Study of the underlying event at forward rapidity in pp collisions at $\sqrt{s} = 0.9, 2.76, 7$ TeV. Journal of High Energy Physics, 2013, 2013, 1.	1.6	50
161	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.	1.4	50
162	Study of $B^0 \rightarrow \tau^+ \tau^-$ production. Physical Review D, 2007, 76, .	1.6	49

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163	Search for new physics with jets and missing transverse momentum in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2011, 2011, 1.	1.6	49
164	Search for leptonic decays of $W \rightarrow e\bar{e}$ bosons in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	1.6	49
165	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.	1.4	49
166	Study of the $D_s^*(2317)$ and $D_s(2460)$ mesons in inclusive e^+e^- production near $\sqrt{s} = 10.6$ GeV. Physical Review D, 2006, 74, .	1.6	48
167	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.	1.6	48
168	Observation of $Y(1S)$ pair production in proton-proton collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	1.6	48
169	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.	1.4	48
170	Observation of the Decay $B \rightarrow \mu^+ \mu^- \nu \bar{\nu}$. Physical Review Letters, 2007, 99, 221801.	1.6	47
171	Study of $B \rightarrow \mu^+ \mu^- \nu \bar{\nu}$. Physical Review D, 2008, 77, .	1.6	47
172	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.	1.6	47
173	Measurements of Branching Fractions, Polarizations, and Direct CP-Violation Asymmetries in $B \rightarrow K^* \mu^+ \mu^-$ and $B \rightarrow K^* \mu^+ \mu^-$ Decays. Physical Review Letters, 2006, 97, 201801.	2.9	46
174	Search for new physics with same-sign isolated dilepton events with jets and missing transverse energy at the LHC. Journal of High Energy Physics, 2011, 2011, 1.	1.6	46
175	Search for narrow resonances and quantum black holes in inclusive and b-tagged dijet mass spectra from pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2013, 2013, 1.	1.6	46
176	Search for disappearing tracks in proton-proton collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2015, 2015, 1.	1.6	46
177	Search for third-generation scalar leptoquarks decaying to a top quark and a τ lepton at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2018, 78, 707.	1.4	46
178	Measurement of the $B \rightarrow K^* \mu^+ \mu^-$ branching fraction. Physical Review D, 2007, 76, .	1.6	45
179	Search for heavy bottom-like quarks in 4.9 fb^{-1} of pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	1.6	45
180	Measurement of the inclusive electron spectrum in charmless semileptonic B decays near the kinematic end point and determination of $ V_{ub} $. Physical Review D, 2006, 73, .	1.6	44

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181	Search for microscopic black holes in pp collisions at $\sqrt{s}=8$ TeV. Journal of High Energy Physics, 2013, 2013, 1.	1.6	44
182	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.	1.6	44
183	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.	1.4	44
184	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.	1.4	44
185	Improved Limits on the Lepton-Flavor Violating Decays $\tilde{l}_i \rightarrow \tilde{l}_j + \gamma$. Physical Review Letters, 2007, 99, 251803.	2.9	43
186	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.	1.4	43
187	Identification techniques for highly boosted W bosons that decay into hadrons. Journal of High Energy Physics, 2014, 2014, 1.	1.6	43
188	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.	1.4	43
189	Observation of $\tilde{\chi}_1^0 \rightarrow \tilde{\chi}_2^0 + \gamma$ and $\tilde{\chi}_1^0 \rightarrow \tilde{\chi}_3^0 + \gamma$. Physical Review Letters, 2006, 96, 232001.	2.9	42
190	Observation of $B \rightarrow \pi \ell^+ \ell^-$ Meson Decay. Physical Review Letters, 2006, 97, 051802.	2.9	42
191	Search for Lepton Flavor Violating Decays $\tilde{l}_i \rightarrow \tilde{l}_j + \gamma$. Physical Review Letters, 2007, 98, 061803.	2.9	42
192	Measurement of the top-quark mass in $t\bar{t}$ events with dilepton final states in pp collisions at $\sqrt{s}=7$ TeV. European Physical Journal C, 2012, 72, 1.	1.4	42
193	Evidence for exclusive $\tilde{l}_i \tilde{l}_j^* W + W \tilde{l}_i^*$ production and constraints on anomalous quartic gauge couplings in pp collisions at $\sqrt{s}=7$ TeV and 8 TeV. Journal of High Energy Physics, 2016, 2016, 1.	1.6	42
194	Measurement of the Pseudoscalar Decay Constant f_D Using Charm-Tagged Events in e^+e^- Collisions at $\sqrt{s}=10.58$ GeV. Physical Review Letters, 2007, 98, 141801.	2.9	41
195	Vector-Tensor and Vector-Vector Decay Amplitude Analysis of $B \rightarrow \pi^0 K^0$. Physical Review Letters, 2007, 98, 051801.	2.9	41
196	Search for electroweak production of charginos and neutralinos using leptonic final states in pp collisions at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	1.6	41
197	Measurement of the $t\bar{t}$ production cross section in the $e\bar{\nu}_e$ channel in proton-proton collisions at $\sqrt{s}=7$ TeV and 8 TeV. Journal of High Energy Physics, 2016, 2016, 1.	1.6	41
198	Measurement of the $t\bar{t}$ production cross section in the all-jets final state in pp collisions at $\sqrt{s}=8$ TeV. European Physical Journal C, 2016, 76, 128.	1.4	41

#	ARTICLE	IF	CITATIONS
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200	Search for $B \rightarrow \tau^+ \tau^- + \hat{1}/2$. Physical Review D, 2007, 76, .	1.6	40
201	Search for same-sign top-quark pair production at $\sqrt{s} = 7 \text{ TeV}$ and limits on flavour changing neutral currents in the top sector. Journal of High Energy Physics, 2011, 2011, 1.	1.6	40
202	Measurement of the $\text{t} \overline{\text{t}} \text{e} \hat{1}/4$ production cross section using events in the $\text{e} \mu \text{e} \hat{1}/4$ final state in pp collisions at $\sqrt{s} = 13 \text{ TeV}$. European Physical Journal C, 2017, 77, 172.	1.4	40
203	Search for new physics in dijet angular distributions using proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$ and constraints on dark matter and other models. European Physical Journal C, 2018, 78, 789.	1.4	40
204	Measurement of the top quark mass in the all-jets final state at $\sqrt{s} = 13 \text{ TeV}$ and combination with the lepton+jets channel. European Physical Journal C, 2019, 79, 313.	1.4	40
205	Measurement of the Higgs boson production rate in association with top quarks in final states with electrons, muons, and hadronically decaying tau leptons at $\sqrt{s} = 13 \text{ TeV}$. European Physical Journal C, 2021, 81, 378.	1.4	40
206	Measurements of C and P -Violating Asymmetries in the Decay $B \rightarrow \tau^+ \tau^- \nu$. Physical Review Letters, 2007, 99, 161802.	2.9	39
207	Measurement of CP Violation Parameters with a Dalitz Plot Analysis of $B \rightarrow \tau^+ \tau^- \nu \bar{\nu}$. Physical Review Letters, 2007, 99, 251801.	2.9	39
208	Improved measurements of the branching fractions for $B \rightarrow \tau^+ \tau^- \nu \bar{\nu}$ and $B \rightarrow K^+ \tau^- \nu$, and a search for $B \rightarrow K^+ K^- \tau^+ \tau^-$. Physical Review D, 2007, 75, .	1.6	39
209	Search for resonances in the dilepton mass distribution in pp collisions at $\sqrt{s} = 7 \text{ TeV}$. Journal of High Energy Physics, 2011, 2011, 1.	1.6	39
210	Inclusive b-jet production in pp collisions at $\sqrt{s} = 7 \text{ TeV}$. Journal of High Energy Physics, 2012, 2012, 1.	1.6	39
211	Measurement of the $Z \rightarrow \tau^+ \tau^- + \text{b-jet}$ cross section in pp collisions at $\sqrt{s} = 7 \text{ TeV}$. Journal of High Energy Physics, 2012, 2012, 1.	1.6	39
212	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.	1.6	39
213	Measurement of the ZZ production cross section and search for anomalous couplings in $2\hat{1}, 2\hat{2}, \hat{1}\hat{1}$ final states in pp collisions at $\sqrt{s} = 7 \text{ TeV}$. Journal of High Energy Physics, 2013, 2013, 1.	1.6	39
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218	Search for dark matter produced in association with heavy-flavor quark pairs in proton-proton collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2017, 77, 845.	1.4	38
219	Search for heavy resonances that decay into a vector boson and a Higgs boson in hadronic final states at $\sqrt{s}=13$ TeV. European Physical Journal C, 2017, 77, 636.	1.4	38
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221	Amplitude analysis of the decay $B_{\pm} \rightarrow \bar{t} \bar{t} \bar{t} \bar{t}$. Physical Review D, 2005, 72, .	1.6	37
222	Reconstruction of the signal amplitude of the CMS electromagnetic calorimeter. European Physical Journal C, 2006, 46, 23-35.	1.4	37
223	Measurement of the $B \rightarrow \bar{t} \bar{t} \bar{t} \bar{t}$ Branching Fraction and Determination of $ V_{ub} $ with Tagged B Mesons. Physical Review Letters, 2006, 97, 211801.	2.9	37
224	Measurement of decay amplitudes of $B \rightarrow \bar{t} \bar{t} \bar{t} \bar{t}$. Physical Review D, 2007, 76, .	1.6	37
225	Measurement of $D^0 \rightarrow \bar{t} \bar{t} \bar{t} \bar{t}$ mixing using the ratio of lifetimes for the decays $D^0 \rightarrow \bar{t} \bar{t} \bar{t} \bar{t}$, and $D^0 \rightarrow \bar{t} \bar{t} \bar{t} \bar{t}$. Physical Review D, 2008, 78, .	1.6	37
226	Measurement of the τ production cross section in pp collisions at $\sqrt{s}=7$ TeV using the kinematic properties of events with leptons and jets. European Physical Journal C, 2011, 71, 1.	1.4	37
227	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.	1.6	37
228	Measurement of the WZ production cross section in pp collisions at $\sqrt{s}=7$ and 8 TeV and search for anomalous triple gauge couplings at $\sqrt{s}=8$ TeV. European Physical Journal C, 2017, 77, 236.	1.4	37
229	Measurement of the Drell-Yan cross section in pp collisions at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2011, 2011, 1.	1.6	36
230	Measurement of the top-quark mass in all-jets $t \bar{t}$ events in pp collisions at $\sqrt{s}=7$ TeV. European Physical Journal C, 2014, 74, 2758.	1.4	35
231	Search for heavy Majorana neutrinos in e^+e^+ jets and e^+e^- jets events in proton-proton collisions at $\sqrt{s}=8$ TeV. Journal of High Energy Physics, 2016, 2016, 1.	1.6	35
232	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.	1.6	35
233	Measurement of exclusive Υ photoproduction from protons in p Pb collisions at $\sqrt{s_{NN}}=5.02$ TeV. European Physical Journal C, 2019, 79, 277.	1.4	35
234	Measurements of production cross sections of the Higgs boson in the four-lepton final state in proton-proton collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2021, 81, 488.	1.4	35

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236	Improved Measurement of the Cabibbo-Kobayashi-Maskawa Angle \pm Using $B_0(B\bar{A}^0) \rightarrow \bar{l}^+ l^- \bar{\nu} \nu$ Decays. Physical Review Letters, 2005, 95, 041805.	2.9	34
237	Search for the Rare Decay $B_0 \rightarrow \bar{l}^+ l^- \nu \bar{\nu}$ at BABAR. Physical Review Letters, 2006, 96, 241802.	2.9	34
238	Improved Measurement of CP Violation in Neutral B Decays to $cc\bar{s}$. Physical Review Letters, 2007, 99, 171803.	2.9	34
239	Observation of Z decays to four leptons with the CMS detector at the LHC. Journal of High Energy Physics, 2012, 2012, 1.	1.6	34
240	Search for microscopic black holes in pp collisions at $\sqrt{s} = 7\text{TeV}$. Journal of High Energy Physics, 2012, 2012, 1.	1.6	34
241	Search for supersymmetry in final states with missing transverse energy and 0, 1, 2, or ≥ 3 b-quark jets in 7 TeV pp collisions using the variable \hat{T} . Journal of High Energy Physics, 2013, 2013, 1.	1.6	34
242	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.	1.6	34
243	Measurement of $\sigma(\text{t}\bar{\text{t}})$ production with additional jet activity, including b quark jets, in the dilepton decay channel using pp collisions at $\sqrt{s} = 8\text{TeV}$. European Physical Journal C, 2016, 76, 379.	1.4	34
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245	Measurement of the top quark mass with lepton+jets final states using pp collisions at $\sqrt{s} = 13\text{TeV}$. European Physical Journal C, 2018, 78, 891.	1.4	34
246	Search for single production of vector-like quarks decaying to a top quark and a W boson in proton-proton collisions at $\sqrt{s} = 13\text{TeV}$. European Physical Journal C, 2019, 79, 90.	1.4	34
247	Measurement of the underlying event in the Drell-Yan process in proton-proton collisions at $\sqrt{s} = 7\text{TeV}$. European Physical Journal C, 2012, 72, 1.	1.4	33
248	Search for new physics in events with same-sign dileptons and b jets in pp collisions at $\sqrt{s} = 8\text{TeV}$. Journal of High Energy Physics, 2013, 2013, 1.	1.6	33
249	Search for heavy resonances decaying to two Higgs bosons in final states containing four b quarks. European Physical Journal C, 2016, 76, 371.	1.4	33
250	Measurement of exclusive $\rho^+ \rho^-$ photoproduction in ultraperipheral pPb collisions at $\sqrt{s_{NN}} = 5.02\text{TeV}$. European Physical Journal C, 2019, 79, 702.	1.4	33
251	Search for dark matter produced in association with a leptonically decaying Z boson in proton-proton collisions at $\sqrt{s} = 13\text{TeV}$. European Physical Journal C, 2021, 81, 13.	1.4	33
252	Search for top squark pair production using dilepton final states in collision data collected at $\sqrt{s} = 13\text{TeV}$. European Physical Journal C, 2021, 81, 3.	1.4	33

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253	Measurement of $\sigma_{\text{pp}}^{\text{normalised}}$ normalised multi-differential cross sections in $\sqrt{s}=13, \text{TeV}$ collisions at $\sqrt{s}=13, \text{TeV}$, and simultaneous determination of the strong coupling strength, top quark pole mass, and parton distribution functions. <i>European Physical Journal C</i> , 2020, 80, 1.	1.4	33
254	Measurements of CP-Violating Asymmetries in $B \rightarrow \pi^0 \ell^+ \ell^-$ Decays. <i>Physical Review Letters</i> , 2007, 98, 181803.	2.9	32
255	Measurement of $\overline{B} \rightarrow B$ angular correlations based on secondary vertex reconstruction at $\sqrt{s} = 7, \text{TeV}$. <i>Journal of High Energy Physics</i> , 2011, 2011, 1.	1.6	32
256	Search for supersymmetry in pp collisions at $\sqrt{s} = 7 \text{ TeV}$ in events with a single lepton, jets, and missing transverse momentum. <i>Journal of High Energy Physics</i> , 2011, 2011, 1.	1.6	32
257	Search in leptonic channels for heavy resonances decaying to long-lived neutral particles. <i>Journal of High Energy Physics</i> , 2013, 2013, 1.	1.6	32
258	Jet and underlying event properties as a function of charged-particle multiplicity in proton-proton collisions at $\sqrt{s} = 7 \text{ TeV}$. <i>European Physical Journal C</i> , 2013, 73, 2674.	1.4	32
259	Measurements of the $Z \rightarrow \mu^+ \mu^-$ production cross sections in the $2 \leq \eta \leq 2.4$ channel in proton-proton collisions at $\sqrt{s} = 7 \text{ TeV}$ and $\sqrt{s} = 8 \text{ TeV}$. <i>European Physical Journal C</i> , 2015, 75, 511.	1.4	32
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261	Amplitude analysis of the decay $D^0 \rightarrow K^+ K^- \pi^0$. <i>Physical Review D</i> , 2007, 76, .	1.6	31
262	Shape, transverse size, and charged-hadron multiplicity of jets in pp collisions at $\sqrt{s} = 7 \text{ TeV}$. <i>Journal of High Energy Physics</i> , 2012, 2012, 1.	1.6	31
263	Measurement of the triple-differential cross section for photon + jets production in proton-proton collisions at $\sqrt{s} = 7 \text{ TeV}$. <i>Journal of High Energy Physics</i> , 2014, 2014, 1.	1.6	31
264	Measurement of electroweak production of two jets in association with a Z boson in proton-proton collisions at $\sqrt{s} = 8 \text{ TeV}$. <i>European Physical Journal C</i> , 2015, 75, 66.	1.4	31
265	Measurement of transverse momentum relative to dijet systems in PbPb and pp collisions at $\sqrt{s_{NN}} = 2.76 \text{ TeV}$. <i>Journal of High Energy Physics</i> , 2016, 2016, 1.	1.6	31
266	Search for top squark pair production in pp collisions at $\sqrt{s} = 13 \text{ TeV}$ using single lepton events. <i>Journal of High Energy Physics</i> , 2017, 2017, 1.	1.6	31
267	A multi-dimensional search for new heavy resonances decaying to boosted $W^+ W^-$, $W^+ Z$, or $Z Z$ boson pairs in the dijet final state at $\sqrt{s} = 13 \text{ TeV}$. <i>European Physical Journal C</i> , 2020, 80, 237.	1.4	31
268	Measurements of the decays $B^0 \rightarrow D^+ D_s^-$, $B^0 \rightarrow D^+ D_s^{*-}$, $B^0 \rightarrow D^+ D_s^{*0}$, and $B^0 \rightarrow D^+ D_s^{*+}$. <i>Physical Review D</i> , 2006, 74, .	1.6	30
269	Study of $B^0 \rightarrow D^{(*)} D_s^{(*)}$ decays and measurement of D_s^* and D_s branching fractions. <i>Physical Review D</i> , 2006, 74, .	1.6	30
270	Measurement of CP-violating asymmetries in $B \rightarrow D^0 \pi^0$ decays. <i>Physical Review D</i> , 2006, 74, .	1.6	30

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272	Measurement of Bose-Einstein correlations in pp collisions at $\sqrt{s} = 0.9$ and 7 TeV. Journal of High Energy Physics, 2011, 2011, 1.	1.6	30
273	Search for new physics in events with same-sign dileptons and b-tagged jets in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	1.6	30
274	Search for a Higgs boson in the decay channel $H \rightarrow ZZ^* \rightarrow q\bar{q}$ in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	1.6	30
275	Measurement of the W-boson helicity in top-quark decays from $t \rightarrow Wb$ production in lepton+jets events in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2013, 2013, 1.	1.6	30
276	Search for neutral MSSM Higgs bosons decaying into a pair of bottom quarks. Journal of High Energy Physics, 2015, 2015, 1.	1.6	30
277	Search for massive WH resonances decaying into the $b\bar{b}$ final state at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2016, 76, 237.	1.4	30
278	Measurements of the associated production of a Z boson and b jets in pp collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2017, 77, 751.	1.4	30
279	Study of $B^0 \rightarrow \rho^+ \rho^-$ decays and determination of $ V_{ub} $. Physical Review D, 2005, 72, .	1.6	29
280	Observation of CP violation in $B^0 \rightarrow \rho^+ \rho^-$ decays. Physical Review Letters, 2007, 98, 031801.	2.9	29
281	Search for $D^0 \rightarrow D^0$ mixing using doubly flavor tagged semileptonic decay modes. Physical Review D, 2007, 76, .	1.6	29
282	The CMS barrel calorimeter response to particle beams from $\sqrt{s} = 350$ GeV/c. European Physical Journal C, 2009, 60, 359-373.	1.4	29
283	Search for supersymmetry in events with b jets and missing transverse momentum at the LHC. Journal of High Energy Physics, 2011, 2011, 1.	1.6	29
284	Measurement of inclusive jet production and nuclear modifications in pPb collisions at $\sqrt{s_{NN}} = 5.02$ TeV. European Physical Journal C, 2016, 76, 372.	1.4	29
285	Correlations between jets and charged particles in PbPb and pp collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Journal of High Energy Physics, 2016, 2016, 1.	1.6	29
286	A search for new phenomena in pp collisions at $\sqrt{s} = 13$ TeV in final states with missing transverse momentum and at least one jet using the α_T variable. European Physical Journal C, 2017, 77, 294.	1.4	29
287	Search for light bosons in decays of the 125 GeV Higgs boson in proton-proton collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	1.6	29
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290	Amplitude Analysis of the $B^0 \rightarrow \pi^+ \pi^- K^0$ Decay. Physical Review Letters, 2007, 99, 201802.	2.9	28
291	Measurement of the Branching Fractions of Exclusive $B \rightarrow \pi^0 \pi^0$ Decays. Physical Review Letters, 2007, 99, 201802.	2.9	28
292	Search for $t\bar{t}$ production in the $t\bar{t} \rightarrow b\bar{b}$ decay channel with leptonic $t\bar{t}$ decays in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	1.6	28
293	Measurements of differential Z boson production cross sections in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	1.6	28
294	Determination of $ V_{ub} $ from Measurements of the Electron and Neutrino Momenta in Inclusive Semileptonic B Decays. Physical Review Letters, 2005, 95, 111801.	2.9	27
295	Dalitz plot analysis of the decay $B^0 \rightarrow \pi^+ K^0 \pi^-$. Physical Review D, 2008, 78, .	1.6	27
296	Searches for the decays $B \rightarrow \pi^0 \pi^0$ and $B \rightarrow \pi^+ \pi^-$. Physical Review D, 2008, 77, .	1.6	27
297	Study of Z production in PbPb and pp collisions at $\sqrt{s_{NN}} = 2.76$ TeV in the dimuon and dielectron decay channels. Journal of High Energy Physics, 2015, 2015, 1.	1.6	27
298	Search for anomalous single top quark production in association with a photon in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2016, 2016, 1.	1.6	27
299	Search for new physics in events with a leptonically decaying Z boson and a large transverse momentum imbalance in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2018, 78, 291.	1.4	27
300	Performance of the reconstruction and identification of high-momentum muons in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of Instrumentation, 2020, 15, P02027-P02027.	0.5	27
301	Measurements of Higgs boson production cross sections and couplings in the diphoton decay channel at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2021, 2021, 1.	1.6	27
302	Measurements of neutral B decay branching fractions to $K_S^0 \pi^0$ final states and the charge asymmetry of $B^0 \rightarrow \pi^+ \pi^- K^0$. Physical Review D, 2006, 73, .	1.6	26
303	Measurement of the $B \rightarrow \pi^0 \pi^0$ fraction and a search for a second-class current in the $B \rightarrow \pi^0 \pi^0$ decay. Physical Review D, 2008, 77, .	1.6	26
304	Search for physics beyond the standard model in opposite-sign dilepton events in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2011, 2011, 1.	1.6	26
305	Search for resonant $t\bar{t}$ production in lepton+jets events in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	1.6	26
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308	Measurement of the production cross section for pairs of isolated photons in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	1.6	26
309	Search for $W \rightarrow tb$ decays in the lepton + jets final state in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2014, 2014, 1.	1.6	26
310	Measurement of the W boson helicity in events with a single reconstructed top quark in pp collisions at $s = 8$ TeV. Journal of High Energy Physics, 2015, 2015, 1.	1.6	26
311	Measurement of the inclusive jet cross section in pp collisions at $\sqrt{s} = 2.76, 8$ TeV. European Physical Journal C, 2016, 76, 1.	1.4	26
312	Monte Carlo simulation of the SABRE PoP background. Astroparticle Physics, 2019, 106, 1-9.	1.9	26
313	Measurement of the Direct CP Asymmetry in $B \rightarrow \tau^+ \tau^-$ Decays. Physical Review Letters, 2004, 93, 021804.	2.9	25
314	Search for $C \rightarrow P$ violation in neutral meson Cabibbo-suppressed three-body decays. Physical Review D, 2008, 78, .	1.6	25
315	Observation of $B \rightarrow K^* K^0$ and Search for $B \rightarrow K^* K^0$. Physical Review Letters, 2008, 100, 081801.	2.9	25
316	Measurement of energy flow at large pseudorapidities in pp collisions at $\sqrt{s} = 0.9$ and 7 TeV. Journal of High Energy Physics, 2011, 2011, 1.	1.6	25
317	Response of microchannel plates to single particles and to electromagnetic showers. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2015, 797, 216-221.	0.7	25
318	Forward-backward asymmetry of Drell-Yan lepton pairs in pp collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2016, 76, 325.	1.4	25
319	Search for high-mass resonances in final states with a lepton and missing transverse momentum at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	1.6	25
320	Measurement of time-dependent CP-violating asymmetries and constraints on $\sin^2(2\beta + \beta_3)$ with partial reconstruction of $B \rightarrow D^* \tau^+ \tau^-$ decays. Physical Review D, 2005, 71, .	1.6	24
321	Measurement of the Decay $B \rightarrow \tau^+ \tau^-$. Physical Review Letters, 2008, 100, 231803.	2.9	24
322	Measurement of the $t \rightarrow \tau$ production cross section in the $\tau, +$ jets channel in pp collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2013, 73, 1.	1.4	24
323	Search for physics beyond the standard model in events with two leptons, jets, and missing transverse momentum in pp collisions at $s = 8$ TeV. Journal of High Energy Physics, 2015, 2015, 1.	1.6	24
324	Search for third-generation scalar leptoquarks in the $t \bar{t}$ channel in proton-proton collisions at $s = 8$ TeV. Journal of High Energy Physics, 2015, 2015, 1.	1.6	24

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326	Measurements of $\sigma(\text{pp} \rightarrow \text{ZZ})$ production cross sections and constraints on anomalous triple gauge couplings at $\sqrt{s} = 13, \text{ext}\{\text{TeV}\}$. European Physical Journal C, 2021, 81, 200.	1.4	24
327	Measurements of Branching Fraction, Polarization, and Charge Asymmetry of $B_{\pm} \rightarrow \tau^{\pm} \nu_{\tau}$ and a Search for $B_{\pm} \rightarrow \tau^{\pm} \nu_{\tau} \nu_{\tau}$. Physical Review Letters, 2006, 97, 261801.	2.9	23
328	Determinations of $ V_{ub} $ from Inclusive Semileptonic B Decays with Reduced Model Dependence. Physical Review Letters, 2006, 96, 221801.	2.9	23
329	Production and Decay of χ_{c0} . Physical Review Letters, 2007, 99, 062001.	1.6	23
330	Branching Fraction Measurements of $B \rightarrow \tau^+ \nu_{\tau}$, $B_0 \rightarrow \tau^+ \nu_{\tau}$, and $B_0 \rightarrow \tau^+ \nu_{\tau} \nu_{\tau}$. Physical Review Letters, 2007, 98, 151802.	2.9	23
331	Measurement of the spin of the χ_{c0} . Physical Review Letters, 2007, 99, 062001.	1.6	23
332	Inclusive b-hadron production cross section with muons in pp collisions at $\sqrt{s} = 7, \text{ext}\{\text{TeV}\}$. Journal of High Energy Physics, 2011, 2011, 1.	1.6	23
333	Measurement of WZ and ZZ production in pp collisions at $\sqrt{s} = 8, \text{ext}\{\text{TeV}\}$ $s = 8 \text{ TeV}$ in final states with b-tagged jets. European Physical Journal C, 2014, 74, 2973.	1.4	23
334	Observation of top quark pairs produced in association with a vector boson in pp collisions at $s = 8 \sqrt{s} = 8 \text{ TeV}$. Journal of High Energy Physics, 2016, 2016, 1.	1.6	23
335	Measurement of the jet mass in highly boosted τ events from pp collisions at $\sqrt{s} = 8 \text{ TeV}$. European Physical Journal C, 2017, 77, 467.	1.4	23
336	Search for heavy resonances decaying to tau lepton pairs in proton-proton collisions at $s = 13 \sqrt{s} = 13 \text{ TeV}$. Journal of High Energy Physics, 2017, 2017, 1.	1.6	23
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338	Measurement of the top quark mass using single top quark events in proton-proton collisions at $\sqrt{s} = 8 \text{ TeV}$. European Physical Journal C, 2017, 77, 354.	1.4	23
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341	Search for dark matter and unparticles in events with a Z boson and missing transverse momentum in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$. Journal of High Energy Physics, 2017, 2017, 1.	1.6	23
342	Measurement of the time-dependent CP-violating asymmetry in $B_0 \rightarrow K_S^0 \ell^+ \ell^-$ decays. Physical Review D, 2005, 72, .	1.6	22

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344	Measurement of the branching fraction and time-dependent CP asymmetry in the decay $B^0 \rightarrow D^{*+} D^{\pm} K^0$. Physical Review D, 2006, 74, .	1.6	22
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347	Measurement of CP-Violating Asymmetries in $B^0 \rightarrow D^{*+} D^{\pm}$. Physical Review Letters, 2007, 99, 071801.	2.9	22
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350	Search for $t \bar{t} \tilde{A}^{\pm}$ resonances in highly boosted lepton+jets and fully hadronic final states in proton-proton collisions at $s = 13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	1.6	22
351	Search for massive resonances decaying into WW, WZ or ZZ bosons in proton-proton collisions at $s = 13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	1.6	22
352	Search for direct production of supersymmetric partners of the top quark in the all-jets final state in proton-proton collisions at $s = 13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	1.6	22
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359	Search for direct top squark pair production in events with one lepton, jets, and missing transverse momentum at 13 TeV with the CMS experiment. Journal of High Energy Physics, 2020, 2020, 1.	1.6	21
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363	Measurement of the inclusive Z cross section via decays to tau pairs in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2011, 2011, 1.	1.6	20
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380	Observation of B Meson Decays to $b \rightarrow c$. Physical Review Letters, 2007, 99, 241803.	2.9	18
381	Search for Lepton Flavor Violating Decays $\tilde{\nu}_\tau \rightarrow \nu_\tau \gamma$. Physical Review Letters, 2008, 100, 071802.	2.9	18
382	Search for quark compositeness in dijet angular distributions from pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	1.6	18
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405	Measurement of the B^0 lifetime and the B^0 oscillation frequency using partially reconstructed $B^0 \rightarrow D^* + \pi^0$ decays. Physical Review D, 2006, 73, .	1.6	16
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418	Measurement of the production cross section of a W boson in association with two b jets in pp collisions at $\sqrt{s} = 8, \text{TeV}$ $s = 8$ TeV. European Physical Journal C, 2017, 77, 92.	1.4	16
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424	Search for the Decay $B \rightarrow \pi^+ \pi^- \pi^0$ and $B \rightarrow \pi^+ \pi^- \pi^+$. Physical Review Letters, 2007, 99, 201801.	2.9	15
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426	Search for decays of B mesons into $e^+ e^- \gamma$ and $e^+ e^- \pi^0$ final states. Physical Review D, 2008, 77, .	1.6	15
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432	Measurement of the $t \bar{t} \hat{A}^-$ production cross section using events with one lepton and at least one jet in pp collisions at $s = 13 \sqrt{s}=13 \text{ TeV}$. Journal of High Energy Physics, 2017, 2017, 1.	1.6	15

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435	B-meson decays to $K^* \ell^+ \ell^-$, $K^* \ell^+ \ell^-$, and $\pi^0 \ell^+ \ell^-$. <i>Physical Review D</i> , 2006, 74, .	1.6	14
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438	Branching fraction measurement of $B^0 \rightarrow D^* \ell^+ \ell^-$ and $B^0 \rightarrow D^* \ell^+ \ell^-$ and isospin analysis of $B^0 \rightarrow D^* \ell^+ \ell^-$ decays. <i>Physical Review D</i> , 2007, 75, .	1.6	14
439	Search for third-generation leptoquarks and scalar bottom quarks in pp collisions at $\sqrt{s} = 7$ TeV. <i>Journal of High Energy Physics</i> , 2012, 2012, 1.	1.6	14
440	Search for s channel single top quark production in pp collisions at $\sqrt{s} = 7$ and 8 TeV. <i>Journal of High Energy Physics</i> , 2016, 2016, 1.	1.6	14
441	Search for supersymmetry in pp collisions at $\sqrt{s} = 13$ TeV in the single-lepton final state using the sum of masses of large-radius jets. <i>Journal of High Energy Physics</i> , 2016, 2016, 1.	1.6	14
442	Measurements of differential production cross sections for a Z boson in association with jets in pp collisions at $\sqrt{s} = 8$ TeV. <i>Journal of High Energy Physics</i> , 2017, 2017, 1.	1.6	14
443	Search for electroweak production of a vector-like quark decaying to a top quark and a Higgs boson using boosted topologies in fully hadronic final states. <i>Journal of High Energy Physics</i> , 2017, 2017, 1.	1.6	14
444	Search for black holes and sphalerons in high-multiplicity final states in proton-proton collisions at $\sqrt{s} = 13$ TeV. <i>Journal of High Energy Physics</i> , 2018, 2018, 1.	1.6	14
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454	Search for the decay $B \rightarrow \pi^+ \pi^- \pi^0$. Physical Review D, 2007, 76, .	1.6	13
455	Measurement of the $B \rightarrow \pi^+ \pi^- \pi^0$ branching fraction and direct CP asymmetry. Physical Review D, 2007, 75, .	1.6	13
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464	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.	1.6	13
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467	Measurement of CP observables for the decays $B \rightarrow \pi^+ \pi^- \pi^0$. Physical Review D, 2005, 72, .	1.6	12
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488	Production and Decay of B_{BABAR} . <i>Physical Review Letters</i> , 2005, 95, 142003.	2.9	11
489	Measurements of CP-violating asymmetries and branching fractions in B decays to $K\pi$. <i>Physical Review D</i> , 2006, 74, .	1.6	11
490	Measurement of branching fractions in radiative B decays to K_1^3 and search for B decays to K_1^3 . <i>Physical Review D</i> , 2006, 74, .	1.6	11
491	Search for neutral B -meson decays to $a_0 K_1^0$, \bar{K}_1^0 , and f_0 . <i>Physical Review D</i> , 2007, 75, .	1.6	11
492	Study of B Meson Decays with Excited \bar{K}^* Mesons. <i>Physical Review Letters</i> , 2008, 101, 091801.	2.9	11
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494	Forward energy flow, central charged-particle multiplicities, and pseudorapidity gaps in W and Z boson events from pp collisions at $\sqrt{s} = 7$ TeV. <i>European Physical Journal C</i> , 2012, 72, 1.	1.4	11
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498	Measurement of the semileptonic $t \bar{t} \rightarrow \text{t} \bar{\text{t}} + \bar{K}_1^3$ production cross section in pp collisions at $s = 8$ TeV. <i>Journal of High Energy Physics</i> , 2017, 2017, 1.	1.6	11
499	Measurement of the transverse momentum spectrum of the Higgs boson produced in pp collisions at $s = 8$ TeV using $H \rightarrow WW$ decays. <i>Journal of High Energy Physics</i> , 2017, 2017, 1.	1.6	11
500	Search for heavy resonances decaying into a vector boson and a Higgs boson in final states with charged leptons, neutrinos and b quarks at $\sqrt{s} = 13$ TeV. <i>Journal of High Energy Physics</i> , 2018, 2018, 1.	1.6	11
501	Search for supersymmetry in events with a photon, jets, b -jets, and missing transverse momentum in proton-proton collisions at $\sqrt{s} = 13$ TeV. <i>European Physical Journal C</i> , 2019, 79, 444.	1.4	11
502	Study of the underlying event in top quark pair production in pp collisions at $\sqrt{s} = 13$ TeV. <i>European Physical Journal C</i> , 2019, 79, 123.	1.4	11
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504	Measurement of Time-Dependent CP Asymmetries and the CP-Odd Fraction in the Decay $B^0 \rightarrow D^* + D^{*\bar{a}}$. <i>Physical Review Letters</i> , 2005, 95, 151804.	2.9	10

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505	Evidence for the decay $B^{\pm} \rightarrow K^* \bar{K}^0$. Physical Review D, 2005, 71, .	1.6	10
506	Search for $B^{\pm} \rightarrow D$ decays. Physical Review D, 2005, 71, .	1.6	10
507	Measurement of the $D^+ \rightarrow \bar{K}^0$ and $D^+ \rightarrow K^0$ branching fractions. Physical Review D, 2006, 74, .	1.6	10
508	Measurements of the branching fraction and time-dependent CP asymmetries of $B^0 \rightarrow \bar{K}^0$ decays. Physical Review D, 2006, 74, .	1.6	10
509	Measurements of $\bar{b} \rightarrow c$ branching fractions of Cabibbo-suppressed decay modes involving $\bar{b} \rightarrow d$ and $\bar{b} \rightarrow s$. Physical Review D, 2007, 75, .	1.6	10
510	Measurement of the relative branching fractions of $B \rightarrow B^0$ and $B \rightarrow D^0$. Physical Review D, 2007, 76, .	1.6	10
511	Study of inclusive $B^0 \rightarrow D, D_s$, and $\bar{b} \rightarrow c$. Physical Review D, 2007, 75, .	1.6	10
512	High voltage system for the CMS electromagnetic calorimeter. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2007, 582, 462-468.	0.7	10
513	Measurement of the CP-violating asymmetries in $B^0 \rightarrow K^0$ and of the branching fraction $B^0 \rightarrow K^0$. Physical Review D, 2008, 77, .	1.6	10
514	Search for supersymmetry in events with a lepton, a photon, and large missing transverse energy in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2011, 2011, 1.	1.6	10
515	Measurement of the underlying event activity using charged-particle jets in proton-proton collisions at $s = 2.76$ TeV. Journal of High Energy Physics, 2015, 2015, 1.	1.6	10
516	Measurement of the inclusive energy spectrum in the very forward direction in proton-proton collisions at $s = 13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	1.6	10
517	Study of dijet events with a large rapidity gap between the two leading jets in pp collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2018, 78, 242.	1.4	10
518	Measurement of the $\sigma(\text{pp} \rightarrow Z/\gamma^* \rightarrow \mu^+ \mu^-)$ cross section in pp collisions at $\sqrt{s} = 13$ TeV and validation of $\sigma(\text{pp} \rightarrow Z/\gamma^* \rightarrow \mu^+ \mu^-)$. European Physical Journal C, 2018, 78, 708.	1.4	10
519	Search for a heavy resonance decaying into a Z boson and a vector boson in the $u \bar{u} \rightarrow q \bar{q}$ final state. Journal of High Energy Physics, 2018, 2018, 1.	1.6	10
520	Evidence for W production from double-parton interactions in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2020, 80, 1.	1.4	10
521	Search for the decay $\bar{b} \rightarrow \bar{c} + 3\bar{l} + \bar{\nu}_l$. Physical Review D, 2005, 72, .	1.6	9
522	Search for the decay of a B^0 meson to $K^* K^0$ or $K^* \bar{K}^0$. Physical Review D, 2006, 74, .	1.6	9

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523	Observation of the exclusive reaction $e^+e^- \rightarrow \tau^+\tau^- \gamma$ at $\sqrt{s} = 10.58$ GeV. <i>Physical Review D</i> , 2006, 74, .	1.6	9
524	Observation of e^+e^- Annihilation into the $C=+1$ Hadronic Final States ρ^0 and ω . <i>Physical Review Letters</i> , 2006, 97, 112002.	2.9	9
525	Observation of Decays $B_0 \rightarrow D_s^* \tau^+ \nu_\tau$ and $B_0 \rightarrow D_s^* K^+$. <i>Physical Review Letters</i> , 2007, 98, 081801.	2.9	9
526	Search for the reactions $e^+e^- \rightarrow \tau^+\tau^- \gamma$ and $e^+e^- \rightarrow e^+\mu^-\gamma$. <i>Physical Review D</i> , 2007, 75, .	1.6	9
527	Measurement of B decays to $\tau^+ K^0$. <i>Physical Review D</i> , 2007, 75, .	1.6	9
528	Measurement of the Absolute Branching Fraction of $D_0 \rightarrow K^+ \pi^-$. <i>Physical Review Letters</i> , 2008, 100, 051802.	2.9	9
529	Azimuthal correlations for inclusive 2-jet, 3-jet, and 4-jet events in pp collisions at $\sqrt{s} = 13$ TeV. <i>European Physical Journal C</i> , 2018, 78, 1.	1.4	9
530	Search for a heavy resonance decaying to a top quark and a vector-like top quark in the lepton + jets final state in pp collisions at $\sqrt{s} = 13$ TeV. <i>European Physical Journal C</i> , 2019, 79, 1.	1.4	9
531	Search for a heavy vector resonance decaying to a Z boson and a Higgs boson in proton-proton collisions at $\sqrt{s} = 13$ TeV. <i>European Physical Journal C</i> , 2021, 81, 688.	1.4	9
532	Evidence for $B \rightarrow K^* K^0$ and $B_0 \rightarrow K^* K^0$, and Measurement of the Branching Fraction and Search for Direct CP Violation in $B \rightarrow K^* K^0$. <i>Physical Review Letters</i> , 2005, 95, 221801.	2.9	8
533	Search for the W -exchange decays $B_0 \rightarrow D_s^* \tau^+ \nu_\tau$. <i>Physical Review D</i> , 2005, 72, .	1.6	8
534	Study of $B \rightarrow K^* K^0$ interference in the decay $B \rightarrow K^* K^0$. <i>Physical Review D</i> , 2005, 72, .	1.6	8
535	Measurement of the $B \rightarrow D^* K^0$ branching fraction. <i>Physical Review D</i> , 2006, 73, .	1.6	8
536	Precise branching ratio measurements of the decays $D_0 \rightarrow K^+ \pi^-$ and $D_0 \rightarrow K^+ K^0$ relative to the $D_0 \rightarrow K^+ \pi^-$ decay. <i>Physical Review D</i> , 2006, 74, .	1.6	8
537	Search for rare quark-annihilation decays, $B \rightarrow D_s^* \tau^+ \nu_\tau$. <i>Physical Review D</i> , 2006, 73, .	1.6	8
538	Measurement of the ratio $B(B \rightarrow K^* X e^{1/2}) / B(B_0 \rightarrow K^* X e^{1/2})$. <i>Physical Review D</i> , 2006, 74, .	1.6	8
539	Measurement of the Time-Dependent CP Asymmetry in $B_0 \rightarrow D^* \pi^0$ Decays. <i>Physical Review Letters</i> , 2007, 99, 081801.	2.9	8
540	Observation of $B \rightarrow K^* K^0$ and measurement of its branching fraction and charge asymmetry. <i>Physical Review D</i> , 2007, 76, .	1.6	8

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541	Measurement of time-dependent asymmetries and the odd fraction in the decay $B \rightarrow C P$ -odd fraction in the decay $B \rightarrow C P$. Physical Review D, 2008, 77, .	1.6	8
542	Time-dependent Dalitz plot analysis of $B \rightarrow D^* K^0$ decays. Physical Review D, 2008, 77, .	1.6	8
543	Beam test evaluation of electromagnetic calorimeter modules made from proton-damaged $PbWO_4$ crystals. Journal of Instrumentation, 2016, 11, P04012-P04012.	0.5	8
544	Searches for $W \rightarrow t b$ bosons decaying to a top quark and a bottom quark in proton-proton collisions at 13 TeV. Journal of High Energy Physics, 2017, 2017, 1.	1.6	8
545	Search for a heavy resonance decaying into a Z boson and a Z or W boson in $2q$ final states at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	1.6	8
546	Azimuthal separation in nearly back-to-back jet topologies in inclusive 2- and 3-jet events in pp collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2019, 79, 773.	1.4	8
547	Search for new physics in final states with two opposite-sign, same-flavor leptons, jets, and missing transverse momentum in pp collisions at $s = 13$ TeV. Journal of High Energy Physics, 2016, 2016, 1.	1.6	8
548	Measurement of Time-Dependent CP Asymmetries in $B \rightarrow D^* K^0$ Decays. Physical Review Letters, 2005, 95, 131802.	2.9	7
549	Search for the rare decays $B \rightarrow D^* K_S^0$. Physical Review D, 2005, 72, .	1.6	7
550	Observation of $B \rightarrow \tau^+ \tau^- K^*$ and Evidence for $B \rightarrow \tau^+ \tau^- \bar{K}^*$. Physical Review Letters, 2007, 98, 051802.	2.9	7
551	Search for the decays $B \rightarrow B^* K^0$. Physical Review D, 2008, 77, .	1.6	7
552	Search for the standard model Higgs boson produced in association with W and Z bosons in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	1.6	7
553	Search for direct pair production of scalar top quarks in the single- and dilepton channels in proton-proton collisions at $s = 8$ TeV. Journal of High Energy Physics, 2016, 2016, 1.	1.6	7
554	Search for high-mass Z^0 resonances in $e^+e^- \rightarrow \tau^+ \tau^-$ and $\tau^+ \tau^- + \tau^+ \tau^-$ final states in proton-proton collisions at $s = 8$ TeV and 13 TeV. Journal of High Energy Physics, 2017, 2017, 1.	1.6	7
555	Response of microchannel plates in ionization mode to single particles and electromagnetic showers. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2018, 879, 6-12.	0.7	7
556	Study of central exclusive "Equation missing" production in proton-proton collisions at $\sqrt{s} = 5.02$ TeV and 13 TeV. European Physical Journal C, 2020, 80, 718.	1.4	7
557	Search for the rare decays $B \rightarrow D_s^* a_0(2) \tau^+$. Physical Review D, 2006, 73, .	1.6	6
558	Search for $B \rightarrow B^* u$ transitions in $B \rightarrow B^* K^0$ decays. Physical Review D, 2007, 76, .	1.6	6

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559	Evidence for the Rare Decay $B \rightarrow D_s \gamma$. Physical Review Letters, 2007, 98, .	2.9	6
560	Measurement of the CP Asymmetry and Branching Fraction of $B \rightarrow D_s \gamma$. Physical Review Letters, 2007, 98, 051803.	2.9	6
561	Measurement of the cross section for production of b decaying to muons in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	1.6	6
562	Beam test results for a tungsten-cerium fluoride sampling calorimeter with wavelength-shifting fiber readout. Journal of Instrumentation, 2015, 10, P07002-P07002.	0.5	6
563	Comparison of the $Z \rightarrow b \bar{b} + \text{jets}$ to $\gamma \rightarrow b \bar{b} + \text{jets}$ cross sections in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2015, 2015, 1.	1.6	6
564	Distributions of topological observables in inclusive three- and four-jet events in pp collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2015, 75, 302.	1.4	6
565	Measurement of the mass of the top quark in decays with a J/ψ meson in pp collisions at 8 TeV. Journal of High Energy Physics, 2016, 2016, 1.	1.6	6
566	Measurements of triple-differential cross sections for inclusive isolated-photon+jet events in pp collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2019, 79, 969.	1.4	6
567	Search for the associated production of the Higgs boson with a top-quark pair. , 2014, 2014, 1.		6
568	Inclusive and differential cross section measurements of single top quark production in association with a Z boson in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2022, 2022, 1.	1.6	6
569	Search for heavy resonances decaying to ZZ or ZW and axion-like particles mediating nonresonant ZZ or ZH production at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2022, 2022, 1.	1.6	6
570	Measurement of the branching fraction and decay rate asymmetry of $B \rightarrow D_s \gamma$. Physical Review D, 2005, 72, .	1.6	5
571	Measurement of C and P asymmetries in $B \rightarrow D_s \gamma$. Physical Review D, 2007, 76, .	1.6	5
572	Search for the rare charmless hadronic decay $B \rightarrow D_s \gamma$. Physical Review D, 2008, 77, .	1.6	5
573	Measurement of electroweak production of a W boson and two forward jets in proton-proton collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2016, 2016, 1.	1.6	5
574	Search for the production of an excited bottom quark decaying to tW in proton-proton collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2016, 2016, 1.	1.6	5
575	Search for a heavy resonance decaying to a top quark and a vector-like top quark at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	1.6	5
576	Micro-channel plates in ionization mode as a fast timing device for future hadron colliders. Journal of Instrumentation, 2017, 12, C08014-C08014.	0.5	5

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578	Search for the pair production of light top squarks in the $e^+e^- \rightarrow t\bar{t}$ final state in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$. Journal of High Energy Physics, 2019, 2019, 1.	1.6	5
579	Measurement of energy flow at large pseudorapidities in pp collisions at ($\sqrt{s} = 0.9$) and 7 TeV. , 2011, 2011, 1.		5
580	Measurement of single-diffractive dijet production in proton-proton collisions at $\sqrt{s} = 8, \sqrt{s} = 13 \text{ TeV}$ with the CMS and TOTEM experiments. European Physical Journal C, 2020, 80, 1164.	1.4	5
581	Search for flavor-changing neutral current interactions of the top quark and the Higgs boson decaying to a bottom quark-antiquark pair at $\sqrt{s} = 13 \text{ TeV}$. Journal of High Energy Physics, 2022, 2022, 1.	1.6	5
582	Search for long-lived particles decaying into muon pairs in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$ collected with a dedicated high-rate data stream. Journal of High Energy Physics, 2022, 2022, .	1.6	5
583	Measurement and QCD analysis of double-differential inclusive jet cross sections in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$. Journal of High Energy Physics, 2022, 2022, 1.	1.6	5
584	Search for electroweak production of charginos and neutralinos in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$. Journal of High Energy Physics, 2022, 2022, 1.	1.6	5
585	Search for the decay $B \rightarrow \tau^+ \nu_\tau K^0$. Physical Review D, 2006, 74, .	1.6	4
586	Search for B meson decays to $\tau^+ \nu_\tau K^0$. Physical Review D, 2006, 74, .	1.6	4
587	Search for the decay $B \rightarrow \tau^+ \nu_\tau K^0$. Physical Review D, 2006, 73, .	1.6	4
588	Observation of $B \rightarrow \tau^+ \nu_\tau K^0$ and Evidence for $B \rightarrow \tau^+ \nu_\tau K^0$ below \sqrt{s} threshold. Physical Review Letters, 2006, 97, 261802.		4
589	Search for pair production of excited top quarks in the lepton + jets final state. Journal of High Energy Physics, 2014, 2014, 1.	1.6	4
590	Search for dark matter particles in proton-proton collisions at $s = 8 \sqrt{s} = 8 \text{ TeV}$ using the razor variables. Journal of High Energy Physics, 2016, 2016, 1.	1.6	4
591	Search for CP violation in $t\bar{t} \rightarrow t\bar{t} + \text{jet} + \text{jet}$ production and decay in proton-proton collisions at $s = 8 \sqrt{s} = 8 \text{ TeV}$. Journal of High Energy Physics, 2017, 2017, 1.	1.6	4
592	Search for resonant production of second-generation sleptons with same-sign dimuon events in proton-proton collisions at $\sqrt{s} = 13, \sqrt{s} = 13 \text{ TeV}$. European Physical Journal C, 2019, 79, 305.	1.4	4
593	Search for higgsinos decaying to two Higgs bosons and missing transverse momentum in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$. Journal of High Energy Physics, 2022, 2022, .	1.6	4
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596	Search for $W \rightarrow tb$ in proton-proton collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2016, 2016, 1.	1.6	3
597	Search for top quark partners with charge $5/3$ in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	1.6	3
598	Calibration of the CMS hadron calorimeters using proton-proton collision data at $\sqrt{s} = 13$ TeV. Journal of Instrumentation, 2020, 15, P05002-P05002.	0.5	3
599	Measurement of the (\overline{t}) production cross section in the dilepton channel in pp collisions at $(\sqrt{s}) = 8$ TeV. , 2014, 2014, 1.		3
600	Measurements of the $(\mathrm{p})\mathrm{p} \rightarrow \mathrm{Z}(\mathrm{p})$ production cross section and the $(\mathrm{Z} \rightarrow 4\ell)$ branching fraction, and constraints on anomalous triple gauge couplings at $(\sqrt{s} = 13, \text{ext } \{\text{TeV}\})$. , 2018, 78, 1.		3
601	Search for prompt production of $\chi(3872) \rightarrow e^+e^-$ annihilations. Physical Review D, 2007, 76, .	1.6	2
602	Beam test results on the detection of single particles and electromagnetic showers with microchannel plates. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2017, 845, 471-474.	0.7	2
603	Search for new phenomena with multiple charged leptons in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2017, 77, 1.	1.4	2
604	A fast timing calorimetric layer using micro-channel plates in ionisation mode. Journal of Instrumentation, 2017, 12, C03019-C03019.	0.5	2
605	Measurements of angular distance and momentum ratio distributions in three-jet and $\{Z\}$ + two-jet final states in $\{p\}\{p\}$ collisions. European Physical Journal C, 2021, 81, 852.	1.4	2
606	Search for new physics in events with same-sign dileptons and b jets in pp collisions at $(\sqrt{s} = 8)$ TeV. , 2013, 2013, 1.		2
607	Search for a heavy resonance decaying into a top quark and a W boson in the lepton+jets final state at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2022, 2022, 1.	1.6	2
608	Measurement of the inclusive \overline{t} production cross section in proton-proton collisions at $\sqrt{s} = 5.02$ TeV. Journal of High Energy Physics, 2022, 2022, 1.	1.6	2
609	Search for heavy resonances decaying to a pair of Lorentz-boosted Higgs bosons in final states with leptons and a bottom quark pair at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2022, 2022, .	1.6	2
610	Search for the rare decay $B^0 \rightarrow D^* \ell^3$. Physical Review D, 2005, 72, .	1.6	1
611	High-energy electron test results of a calorimeter prototype based on CeF3 for HL-LHC applications. , 2015, , .		1
612	Search for neutral color-octet weak-triplet scalar particles in proton-proton collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2015, 2015, 1.	1.6	1

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613	Test beam results with a sampling calorimeter of cerium fluoride scintillating crystals and tungsten absorber plates for calorimetry at the HL-LHC. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2016, 824, 681-683.	0.7	1
614	Study of dijet events with large rapidity separation in proton-proton collisions at $\sqrt{s} = 2.76$ TeV. Journal of High Energy Physics, 2022, 2022, 1.	1.6	1
615	The SABRE experiment. International Journal of Modern Physics A, 2022, 37, .	0.5	1
616	Observation of $B^0 \rightarrow \psi(2S) K^0_{\text{S}}$ and $B^0_{\text{S}} \rightarrow \psi(2S) K^0_{\text{S}}$ decays. European Physical Journal C, 2022, 82, .	1.4	1
617	A STUDY OF B^0 OSCILLATIONS WITH FULLY RECONSTRUCTED B MESONS WITH THE BABAR DETECTOR. International Journal of Modern Physics A, 2001, 16, 407-409.	0.5	0
618	Publisher's Note: Search for the rare charmless hadronic decay $B \rightarrow \psi(2S) K^0_{\text{S}}$ [Phys. Rev. D 77, 011101 (2008)]. Physical Review D, 2008, 77, .	1.6	0
619	Publisher's Note: Search for the rare charmless hadronic decay $B \rightarrow \psi(2S) K^0_{\text{S}}$ [Phys. Rev. D 77, 011101 (2008)]. Physical Review D, 2008, 77, .	1.6	0
620	The CMS ECAL Barrel HV system. Journal of Instrumentation, 2013, 8, C02039-C02039.	0.5	0
621	Beam test results on the detection of single particles and electromagnetic showers with microchannel plates. , 2015, , .		0