

# David Hutchcroft

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4394571/publications.pdf>

Version: 2024-02-01

268  
papers

10,533  
citations

31902

53  
h-index

51492

86  
g-index

277  
all docs

277  
docs citations

277  
times ranked

7706  
citing authors

#	ARTICLE	IF	CITATIONS
1	Test of lepton universality with $B \rightarrow K^* \ell^+ \ell^-$ decays. Journal of High Energy Physics, 2017, 2017, 1.	1.6	425
2	Determination of the $\langle X \rangle$ stretchy="false"/> 222001.		
3	Angular analysis of the $B \rightarrow K^* \ell^+ \ell^-$ decay using 3 fb <sup>-1</sup> of integrated luminosity. Journal of High Energy Physics, 2016, 2016, 1.	1.6	304
4	First Evidence for the Decay $B \rightarrow D^* \ell^+ \ell^-$ stretchy="false"/> 292	2.9	292
5	Measurement of $J/\psi$ production in pp collisions at $\sqrt{s}=7$ TeV. European Physical Journal C, 2011, 71, 1.	1.4	238
6	Differential branching fractions and isospin asymmetries of $B \rightarrow K^* \ell^+ \ell^-$ decays. Journal of High Energy Physics, 2014, 2014, 1.	1.6	206
7	Angular analysis and differential branching fraction of the decay $B \rightarrow K^* \ell^+ \ell^-$ . Journal of High Energy Physics, 2015, 2015, 1.	1.6	191
8	Evidence for $C \rightarrow P$ Violation in Time-Integrated $D \rightarrow D^* \ell^+ \ell^-$ Rates. Physical Review Letters, 2012, 108, 111602.	2.9	181
9	Performance of the LHCb Vertex Locator. Journal of Instrumentation, 2014, 9, P09007-P09007.	0.5	175
10	Strong Constraints on the Rare Decays $B \rightarrow D^* \ell^+ \ell^-$ stretchy="false"/> 160	2.9	160
11	Observation of $X(3872)$ production in pp collisions at $\sqrt{s}=7$ TeV. European Physical Journal C, 2012, 72, 1.	1.4	153
12	Implications of LHCb measurements and future prospects. European Physical Journal C, 2013, 73, 1.	1.4	137
13	Observation of $\bar{\psi}\psi$ -pair production in pp collisions at $\sqrt{s}=7$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 707, 52-59.	1.5	123
14	Measurement of $J/\psi$ polarization in pp collisions at $\sqrt{s}=7$ TeV. European Physical Journal C, 2013, 73, 2631.	1.4	117
15	Measurement of $b \rightarrow p$ hadron production fractions in $7 \text{ TeV}$ collisions. Physical Review D, 2012, 85, .	1.6	116
16	Differential branching fraction and angular analysis of the decay $B \rightarrow K^* \ell^+ \ell^-$ . Journal of High Energy Physics, 2013, 2013, 1.	1.6	111
17	Measurement of the $C \rightarrow P$ -Violating Phase in the Decay $B \rightarrow D^* \ell^+ \ell^-$ stretchy="false"/> 108	2.9	108
18	Measurement of $\bar{\psi}\psi$ production in pp collisions at $\sqrt{s}=7$ TeV. European Physical Journal C, 2012, 72, 2025.	1.4	106

#	ARTICLE	IF	CITATIONS
19	Observation of double charm production involving open charm in pp collisions at $\sqrt{s} = 7$ ; $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	1.6	103
20	Differential branching fraction and angular analysis of the decay $B_s^0 \rightarrow \bar{D}^* \rho^+ + \bar{D}^* \rho^0$ . Journal of High Energy Physics, 2013, 2013, 1.	1.6	103
21	Measurements of prompt charm production cross-sections in pp collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2016, 2016, 1.	1.6	100
22	Observation of Excited $\Lambda_c^+$ Baryons. Physical Review Letters, 2012, 109, 172003.	2.9	98
23	Measurement of the fragmentation fraction ratio $f_s/f_d$ and its dependence on B meson kinematics. Journal of High Energy Physics, 2013, 2013, 1.	1.6	89
24	Measurement of $\bar{\Lambda}(25)$ meson production in pp collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2012, 72, 2100.	1.4	83
25	Study of D J meson decays to $D \rightarrow \bar{K}^* \rho^+$ , $D \rightarrow \bar{K}^* \rho^0$ and $D \rightarrow \bar{K}^* \rho^-$ final states in pp collisions. Journal of High Energy Physics, 2013, 2013, 1.	1.6	82
26	First observation of $B_c^+$ mesons. Physical Review Letters, 2011, 106, 231801.	2.9	75
27	Observation of CP violation in $B_c^+ \rightarrow \bar{K}^* \rho^+$ decays. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 712, 203-212.	1.6	74
28	Measurements of the S-wave fraction in $B^0 \rightarrow \bar{K}^* \rho^+$ and $B^0 \rightarrow \bar{K}^* \rho^0$ decays and the $B^0 \rightarrow \bar{K}^* \rho^+$ differential branching ratio. Journal of High Energy Physics, 2016, 2016, 1.	1.6	73
29	Measurement of $C$ and $P$ violation and the $B_c^+$ decay width difference with $B_c^+ \rightarrow \bar{K}^* \rho^+$ . Journal of High Energy Physics, 2014, 2014, 1.	1.6	74
30	Study of $J/\psi$ production and cold nuclear matter effects in pPb collisions at $\sqrt{s_{NN}} = 5$ TeV. Journal of High Energy Physics, 2014, 2014, 1.	1.6	74
31	Measurement of the $\eta_c(1S)$ production cross-section in proton-proton collisions via		

#	ARTICLE	IF	CITATIONS
37	Search for the rare decays $B \rightarrow D^* \ell^+ \ell^-$ . Journal of High Energy Physics, 2012, 2012, 165	1.6	65
38	Measurement of the isospin asymmetry in $B \rightarrow D^* \ell^+ \ell^-$ decays. Journal of High Energy Physics, 2012, 2012, 165		
39	Precision measurement of D meson mass differences. Journal of High Energy Physics, 2013, 2013, .	1.6	65
40	Production of $J/\psi$ and $\Upsilon$ mesons in pp collisions at $\sqrt{s}=8$ TeV. Journal of High Energy Physics, 2013, 2013, 1.	1.6	65
41	Observation of $B \rightarrow D^* \ell^+ \ell^-$ decays. Physical Review Letters, 2013, 110, 101802.	2.9	65
42	First Observation of the Decay $B \rightarrow D^* \ell^+ \ell^-$ . Physical Review Letters, 2012, 108, 251802.	2.9	65
43	Determination of the Sign of the Decay Width Difference in the $B \rightarrow D^* \ell^+ \ell^-$ System. Search for the rare decays $B \rightarrow D^* \ell^+ \ell^-$ . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 699, 330-340.	2.9	61
44	Measurement of forward $J/\psi$ production cross-sections in pp collisions at $s = 13$ TeV. Journal of High Energy Physics, 2015, 2015, 1.	1.5	60
45	Precision measurement of the $B \rightarrow D^* \ell^+ \ell^-$ oscillation frequency with the decay $B \rightarrow D^* \ell^+ \ell^-$ . New Journal of Physics, 2013, 15, 053021.	1.2	59
46	Measurement of b-hadron masses. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 708, 241-248.	1.5	58
47	Opposite-side flavour tagging of B mesons at the LHCb experiment. European Physical Journal C, 2012, 72, 2022.	1.4	58
48	Measurement of b-hadron branching fractions for two-body decays into charmless charged hadrons. Journal of High Energy Physics, 2012, 2012.	1.6	56
49	Observation of $B \rightarrow D^* \ell^+ \ell^-$ decays. Physical Review Letters, 2013, 110, 101802.	2.9	65
50	Search for the rare decays $B \rightarrow D^* \ell^+ \ell^-$ . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 699, 330-340.	1.6	55
51	Measurement of the cross-section for $Z \rightarrow e^+ e^-$ production in pp collisions at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2013, 2013, 1.	1.5	54
52	Study of the $D^0 \rightarrow \rho^+ \ell^+ \ell^-$ amplitude in $\bar{B} \rightarrow D^0 \rho^+ \ell^+ \ell^-$ decays. Journal of High Energy Physics, 2017, 2017, 11.6	1.6	54
53	Search for massive long-lived particles decaying semileptonically in the LHCb detector. European Physical Journal C, 2017, 77, 224.	1.4	54
54	Measurement of the cross-section for $Z \rightarrow e^+ e^-$ production in pp collisions at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2013, 2013, 1.	1.6	53

#	ARTICLE	IF	CITATIONS
55	Measurement of $\psi(2S)$ polarisation in $pp$ collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2014, 74, 2872.	1.4	53
56	Measurement of CP asymmetry in $D^0 \rightarrow K^+ K^-$ and $D^0 \rightarrow \bar{K}^+ \bar{K}^-$ decays. Journal of High Energy Physics, 2014, 2014, 1.	1.6	52
57	Measurement of the exclusive $\Upsilon$ production cross-section in $pp$ collisions at $\sqrt{s} = 7$ TeV and 8 TeV. Journal of High Energy Physics, 2015, 2015, 1.	1.6	52
58	Measurement of the W boson mass. Journal of High Energy Physics, 2022, 2022, 1.	1.6	52
59	First Observation of the Decay $B \rightarrow \tau^+ \tau^-$ . Physical Review Letters, 2013, 110, 151803.	2.9	51
60	Measurement of the phase difference between short- and long-distance amplitudes in the $B^+ \rightarrow K^+ \mu^+ \mu^-$ decay. European Physical Journal C, 2017, 77, 161.	1.4	51
61	Differential Branching Fraction and Angular Analysis of the Decay $B^0 \rightarrow K^* \mu^+ \mu^-$ . Physical Review Letters, 2012, 108, 181806.	2.9	50
62	Measurement of B meson production cross-sections in proton-proton collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2013, 2013, 1.	1.6	50
63	Search for the doubly charmed baryon $\Xi_{cc}^+$ . Journal of High Energy Physics, 2013, 2013, 1.	1.6	50
64	First Evidence of Direct CP Violation in Charmless Two-Body Decays of $B \rightarrow \pi^+ \pi^-$ . Physical Review Letters, 2012, 108, 201601.	2.9	49
65	Searches for Majorana neutrinos in $B^0$ decays. Physical Review D, 2012, 85, .	1.6	49
66	Search for heavy neutral lepton production in $K^+$ decays. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 778, 137-145.	1.5	49
67	Measurement of the cross-section ratio $R_{D^*}$ . Physical Review Letters, 2012, 108, 201601.		

#	ARTICLE	IF	CITATIONS
73	Search for long-lived particles decaying to jet pairs. <i>European Physical Journal C</i> , 2015, 75, 152.	1.4	44
74	Search for heavy neutral lepton production in $K^+$ decays to positrons. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2020, 807, 135599.	1.5	42
75	First observation of the decay $B_c^+ \rightarrow \psi(K^+)$ . <i>Journal of High Energy Physics</i> , 2013, 2013, 1.	1.6	41
76	Updated search for long-lived particles decaying to jet pairs. <i>European Physical Journal C</i> , 2017, 77, 812.	1.4	41
77	Search for production of an invisible dark photon in $\Upsilon(0)$ decays. <i>Journal of High Energy Physics</i> , 2019, 2019, 1.	1.6	40
78	First LHC beam induced tracks reconstructed in the LHCb VELO. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2009, 604, 1-4.	0.7	39
79	Search for Lepton Number Violating Decays $B \rightarrow \tau^+ \nu_{\tau} + \nu_{\tau} + \nu_{\tau} + \nu_{\tau}$ and $B \rightarrow \tau^+ K^+ + \nu_{\tau} + \nu_{\tau}$ . <i>Physical Review Letters</i> , 2012, 108, 101601.	2.9	39
80	Study of the kinematic dependences of $\Upsilon(0)$ production in pp collisions and a measurement of the $\Upsilon(0) \rightarrow \tau^+ \nu_{\tau} + \tau^- \bar{\nu}_{\tau}$ branching fraction. <i>Journal of High Energy Physics</i> , 2014, 2014, 1.	1.6	39
81	Search for beautiful tetraquarks in the $\Upsilon(1S)$ invariant-mass spectrum. <i>Journal of High Energy Physics</i> , 2018, 2018, 1.	1.6	39
82	Search for $B \rightarrow \tau^+ \nu_{\tau} + \nu_{\tau} + \nu_{\tau} + \nu_{\tau}$ production asymmetry in 7 TeV pp collisions. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2013, 718, 902-909.	1.6	38
83	Measurement of the forward-backward asymmetry in $Z \rightarrow \tau^+ \tau^- + \nu_{\tau} \bar{\nu}_{\tau}$ decays and determination of the effective weak mixing angle. <i>Journal of High Energy Physics</i> , 2015, 2015, 1.	1.6	37
84	Production of associated $\Upsilon$ and open charm hadrons in pp collisions at $\sqrt{s} = 7$ and 8 TeV via double parton scattering. <i>Journal of High Energy Physics</i> , 2016, 2016, 1.	1.6	37
85	First observation of the decay $B \rightarrow \tau^+ \nu_{\tau} + \nu_{\tau} + \nu_{\tau}$ . <i>Journal of High Energy Physics</i> , 2012, 2012, 1.	1.6	36
86	Measurement of the relative rate of prompt $\Upsilon(0)$ , $\Upsilon(1)$ and $\Upsilon(2)$ production at $\sqrt{s} = 7$ TeV. <i>Journal of High Energy Physics</i> , 2013, 2013, 1.	1.6	36
87	Evidence for the decay $B \rightarrow \tau^+ \nu_{\tau} + \nu_{\tau} + \nu_{\tau}$ and measurement of the relative branching fractions of $B \rightarrow \tau^+ \nu_{\tau} + \nu_{\tau} + \nu_{\tau}$ and $B \rightarrow \tau^+ \nu_{\tau} + \nu_{\tau} + \nu_{\tau}$ . <i>Journal of High Energy Physics</i> , 2014, 2014, 1.	0.9	35
88	Observation of the $\Upsilon(0) \rightarrow \tau^+ \nu_{\tau} + \nu_{\tau} + \nu_{\tau}$ decay. <i>Journal of High Energy Physics</i> , 2014, 2014, 1.	1.6	35
89	Measurement of the $B \rightarrow \tau^+ \nu_{\tau} + \nu_{\tau} + \nu_{\tau}$ production asymmetry in 7 TeV pp collisions. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2013, 718, 902-909.	1.5	34
90	Measurement of the $B \rightarrow \tau^+ \nu_{\tau} + \nu_{\tau} + \nu_{\tau}$ production asymmetry in 7 TeV pp collisions. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2013, 718, 902-909.	1.5	34



#	ARTICLE	IF	CITATIONS
91	Measurement of the CP-violating phase $\arg(\lambda_{cb})$ in $B \rightarrow D^* \ell^+ \ell^-$ decays. <i>Journal of High Energy Physics</i> , 2017, 2017, 1.	1.5	34
92	Addendum: Observation of double charm production involving open charm in pp collisions at $\sqrt{s} = 7$ TeV. <i>Journal of High Energy Physics</i> , 2014, 2014, 1.	1.6	34
93	Measurement of the $J/\psi$ pair production cross-section in pp collisions at $s = 13 \sqrt{s} = 13$ TeV. <i>Journal of High Energy Physics</i> , 2017, 2017, 1.	1.6	34
94	Angular moments of the decay $B \rightarrow 0 \hat{b} \hat{a}^+ \hat{a} \hat{c} \hat{c}^+ \hat{1}/4 \hat{1}/4 \hat{a}^+$ at low hadronic recoil. <i>Journal of High Energy Physics</i> , 2018, 2018, 1.	1.6	34
95	Search for $K^+$ decays to a muon and invisible particles. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2021, 816, 136259.	1.5	34
96	Measurement of the CP-violating phase $\arg(\lambda_{cb})$ in $B \rightarrow D^* \ell^+ \ell^-$ decays. <i>Journal of High Energy Physics</i> , 2017, 2017, 1.	1.5	33
97	Search for direct CP violation in $B \rightarrow D^* \ell^+ \ell^-$ decays. <i>Journal of High Energy Physics</i> , 2017, 2017, 1.	1.5	33
98	Study of $\Upsilon$ production and cold nuclear matter effects in pPb collisions at $s_{NN} = 5$ TeV. <i>Journal of High Energy Physics</i> , 2014, 2014, 1.	1.6	33
99	Measurement of forward $Z \hat{a}^+ e^+ e \hat{a}^-$ production at $s = 8 \sqrt{s} = 8$ TeV. <i>Journal of High Energy Physics</i> , 2015, 2015, 1.	1.6	33
100	Precision measurement of the $\chi_{cc}^{++}$ mass. <i>Journal of High Energy Physics</i> , 2020, 2020, 1.	1.6	33
101	Search for the rare decays $B \rightarrow D^* \ell^+ \ell^-$ and $B \rightarrow D^* \ell^+ \ell^-$ . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2021, 816, 136259.	1.5	32
102	Observation of the decay $B \rightarrow D^* \ell^+ \ell^-$ . <i>Physical Review D</i> , 2013, 87, .	1.6	32
103	Search for the lepton flavour violating decay $\tilde{L}, \hat{a}^+ \hat{a}^+ \hat{1}/4 \hat{a}^- \hat{1}/4 \hat{a}^-$ . <i>Journal of High Energy Physics</i> , 2015, 2015, 1.	1.6	32
104	Measurement of charged particle multiplicities in pp collisions at $\sqrt{s} = 7$ TeV in the forward region. <i>European Physical Journal C</i> , 2012, 72, 1.	1.4	30
105	Measurement of $J/\psi$ production in pp collisions at $\sqrt{s} = 2.76$ TeV. <i>Journal of High Energy Physics</i> , 2013, 2013, 1.	1.6	30
106	Measurement of charged particle multiplicities and densities in pp collisions at $\sqrt{s} = 7$ TeV in the forward region. <i>European Physical Journal C</i> , 2014, 74, 2888.	1.4	30
107	Forward production of $\Upsilon$ mesons in pp collisions at $s = 7 \sqrt{s} = 7$ and 8 TeV. <i>Journal of High Energy Physics</i> , 2015, 2015, 1.	1.6	30
108	Angular analysis of the $B \rightarrow \hat{a}^+ K^0 e^+ e^-$ decay in the low- $q^2$ region. <i>Journal of High Energy Physics</i> , 2015, 2015, 1.	1.6	30

#	ARTICLE	IF	CITATIONS
109	Measurement of relative branching fractions of B decays to $\tilde{\chi}^0(2S)$ and $J/\psi$ mesons. European Physical Journal C, 2012, 72, 2118.	1.5	29
110	Study of D sJ decays to $D^{\pm} K_{S}^0$ and D OK+ final states in pp collisions. Journal of High Energy Physics, 2012, 2012, .	1.6	29
111	Measurement of the CKM angle $\hat{\beta}_3$ from a combination of LHCb results. Journal of High Energy Physics, 2016, 2016, 1.	1.4	29
112	Determination of $\sin^2 2\beta$ from a combination of LHCb results. Journal of High Energy Physics, 2016, 2016, 1.	1.6	29
113	Measurement of the CKM angle $\hat{\beta}_3$ from a combination of LHCb results. Journal of High Energy Physics, 2016, 2016, 1.	2.9	28
114	Measurement of the $B^0 \rightarrow K^+ K^- e^+ e^-$ branching fraction at low dilepton mass. Journal of High Energy Physics, 2013, 2013, 1.	1.6	28
115	First measurement of time-dependent CP violation in $B_{s^0} \rightarrow K^+ K^-$ decays. Journal of High Energy Physics, 2013, 2013, 1.	1.6	28
116	Studies of the resonance structure in $D^0 \rightarrow K^+ \pi^- \pi^+ \pi^-$ decays. European Physical Journal C, 2018, 78, 443.	1.4	28
117	First observation of the decay $B^0 \rightarrow K^+ K^- \pi^+ \pi^-$ for $B^0$ . Physical Review Letters, 2011, 107, 21.	2.9	27
118	Measurement of the CKM angle $\hat{\beta}_3$ from a combination of LHCb results. Journal of High Energy Physics, 2016, 2016, 1.	1.5	27
119	Application of vertex and mass constraints in track-based alignment. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2013, 712, 48-55.	0.7	27
120	Measurement of prompt hadron production ratios in pp collisions at $\sqrt{s} = 0.9$ and $7$ TeV. European Physical Journal C, 2012, 72, 1.	1.4	26
121	Measurement of mixing and CP violation parameters in two-body charm decays. Journal of High Energy Physics, 2012, 2012, 1.	1.6	26
122	Angular analysis of charged and neutral $B \rightarrow K^* K^*$ decays. Journal of High Energy Physics, 2014, 2014, 1.	1.6	26
123	Search for Higgs-like bosons decaying into long-lived exotic particles. European Physical Journal C, 2016, 76, 664.	1.4	26
124	Searches for lepton number violating $K^+$ decays. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 797, 134794.	1.5	26
125	Measurement of the CKM angle $\hat{\beta}_3$ from a combination of LHCb results. Journal of High Energy Physics, 2016, 2016, 1.	1.4	25
126	Measurement of the forward energy flow in pp collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2013, 73, 2421.	1.4	25



#	ARTICLE	IF	CITATIONS
127	Observation of the decay $B_c^+ \rightarrow J/\psi K + K \bar{\nu}$ . Journal of High Energy Physics, 2013, 2013, 1.	1.6	25
128	Study of forward Z + jet production in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2014, 2014, 1.	1.6	25
129	Searches for $\Lambda_b^0$ and $\Xi_b^0$ decays to $K_{\text{charm}}^0 \pi^+$ and $K_{\text{charm}}^0 \pi^0$ final states with first observation of the $\Lambda_b^0 \rightarrow K_{\text{charm}}^0 \pi^+$ decay. Journal of High Energy Physics, 2014, 2014, 1.	1.6	25
130	Measurements of the branching fractions of $B^+ \rightarrow p \bar{K}^+$ decays. European Physical Journal C, 2013, 73, 2462.	1.4	24
131	Observations of $B \rightarrow K \pi$ decays. Journal of High Energy Physics, 2014, 2014, 1.	0.9	24
132	Measurement of the forward W boson cross-section in pp collisions at $s = 7$ TeV. Journal of High Energy Physics, 2014, 2014, 1.	1.6	24
133	Observation of Z production in proton-lead collisions at LHCb. Journal of High Energy Physics, 2014, 2014, 1.	1.6	24
134	Observations of $B^0 \rightarrow K^+ K^-$ and $B^0 \rightarrow K^+ K^- \pi^0$ decays and searches for other $B^0$ and $\bar{B}^0$ decays to $K^+ K^-$ final states. Journal of High Energy Physics, 2016, 2016, 1.	1.6	24
135	Measurement of the forward Z boson production cross-section in pp collisions at $s = 13$ TeV. Journal of High Energy Physics, 2016, 2016, 1.	1.6	23
136	Measurement of the $B_{\text{charm}}^{\pm}$ production cross-section in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	1.6	22
137	A model-independent Dalitz plot analysis of $B \rightarrow K \pi \pi$ decays. Physics Letters. Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 718, 43-55.	1.5	22
138	First observations of $B^0 \rightarrow D^+ D^-$ , $D_s^+ D_s^-$ and $D^0 D^0$ decays. Physical Review D, 2013, 87, .	1.6	22
139	Measurement of the $B \rightarrow K \pi$ asymmetry in $B \rightarrow K \pi$ decays. Physical Review Letters, 2012, 110, 031801.	2.9	22
140	Measurement of the CKM angle $\beta$ using $B_{\text{charm}}^{\pm} \rightarrow DK_{\text{charm}}^{\pm}$ with $D \rightarrow K^0 \pi^+ \pi^-$ , $K^0 \pi^+ K^-$ decays. Journal of High Energy Physics, 2014, 2014, 1.	1.6	22
141	Observation of $B^0 \rightarrow \pi^+ \pi^- (1525)$ Final States. Physical Review Letters, 2012, 108, 151801.	2.9	21
142	Search for Rare $B \rightarrow K \pi \pi$ decays. Physical Review Letters, 2012, 108, 151801.	2.9	21
143	Search for CP Violation using T-odd correlations in $D^0 \rightarrow K^+ K^- \pi^+ \pi^-$ decays. Journal of High Energy Physics, 2014, 2014, 1.	1.6	21
144	Precise measurements of the properties of the $B(5721)_{0,+}$ and $B(5747)_{0,+}$ states and observation of $B_{\text{charm}}^0$ mass structures. Journal of High Energy Physics, 2015, 2015, 1.	1.6	21

#	ARTICLE	IF	CITATIONS
145	A precise measurement of the $B^0 \rightarrow B^0$ meson oscillation frequency. <i>European Physical Journal C</i> , 2016, 76, 412.	1.4	21
146	Search for the lepton-flavour violating decays $B^0 \rightarrow s \ell^+ \ell'^- \nu_{\ell'}$ . <i>Journal of High Energy Physics</i> , 2018, 2018, 1.	1.6	20
147	Measurement of the inclusive $\bar{t}$ cross-section in pp collisions at $\sqrt{s} = 7$ TeV. <i>Physical Review Letters</i> , 2012, 110, 241802.	1.6	20
148	Measurements of the branching fractions and CP asymmetries of $B^0 \rightarrow J/\psi \ell^+ \ell'^-$ and $B^0 \rightarrow \psi(2S) \ell^+ \ell'^-$ decays. <i>Physical Review D</i> , 2012, 85, .	1.5	20
149	Measurement of the $\bar{t} b$ (3P) mass and of the relative rate of $\bar{t} b$ (1P) and $\bar{t} b$ (2P) production. <i>Journal of High Energy Physics</i> , 2014, 2014, 1.	1.6	20
150	Evidence for the decay $B^0 \rightarrow \psi(2S) \ell^+ \ell'^-$ . <i>Journal of High Energy Physics</i> , 2018, 2018, 1.	1.6	20
151	Measurements of the branching fractions of the decays $B^0 \rightarrow D_s^- \mu^+ \mu^-$ and $B^0 \rightarrow D_s^- \pi^+ \pi^-$ . <i>Journal of High Energy Physics</i> , 2012, 2012, .	1.6	19
152	First Measurement of the $B^0 \rightarrow \psi(2S) \ell^+ \ell'^-$ -Violating Phase in $B^0 \rightarrow \psi(2S) \ell^+ \ell'^-$ decays. <i>Physical Review Letters</i> , 2013, 110, 241802.	2.9	19
153	Resonances and CP violation in $B^0 \rightarrow \psi(2S) \ell^+ \ell'^-$ and $B^0 \rightarrow \psi(2S) \ell^+ \ell'^-$ decays in the mass region above the $\bar{t} b$ (1020). <i>Journal of High Energy Physics</i> , 2017, 2017, 1.	1.6	19
154	Measurement of $V_{cb}$ production ratios in pp collisions at $\sqrt{s} = 0.9$ TeV and 7 TeV. <i>Journal of High Energy Physics</i> , 2011, 2011, 1.	1.6	18
155	Measurement of the $B^0 \rightarrow \psi(2S) \ell^+ \ell'^-$ branching fraction and angular amplitudes. <i>Physical Review D</i> , 2012, 86, .	1.6	18
156	Measurement of the fraction of $\bar{t} b$ (1S) originating from $\bar{t} b$ (1P) decays in pp collisions at $\sqrt{s} = 7$ TeV. <i>Journal of High Energy Physics</i> , 2012, 2012, 1.	1.6	18
157	Measurement of forward $W^+ \ell^+ \nu_{\ell'}$ production in pp collisions at $\sqrt{s} = 8$ TeV. <i>Journal of High Energy Physics</i> , 2016, 2016, 1.	1.6	18
158	Measurement of the effective $\bar{t} b$ lifetime. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2012, 707, 349-356.	1.6	17
159	Radiation damage in the LHCb vertex locator. <i>Journal of Instrumentation</i> , 2013, 8, P08002-P08002.	0.5	17
160	Search for the decay $B^0 \rightarrow D^0 \ell^+ \ell'^-$ . <i>Journal of High Energy Physics</i> , 2015, 2015, 1.	1.6	17
161	Observation of $\bar{t} b$ (2S) $\ell^+ \ell'^-$ and $\bar{t} b$ (1S) $\ell^+ \ell'^-$ decays and a measurement of the $\bar{t} b$ baryon mass. <i>Journal of High Energy Physics</i> , 2016, 2016, 1.	1.6	17

#	ARTICLE	IF	CITATIONS
163	Study of charmonium production in $b$ -hadron decays and first evidence for the decay $B^0 \rightarrow \phi \phi \phi$ . European Physical Journal C, 2017, 77, 609.	1.4	17
164	Improved limit on the branching fraction of the rare decay $K^0 \rightarrow \mu^+ \mu^- K^0 \rightarrow \mu^+ \mu^- K^0$ . European Physical Journal C, 2017, 77, 678.	1.4	17
165	Measurement of the $\eta_c(1S)$ production cross-section in $pp$ collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2020, 80, 1.	1.4	17
166	Lifetime in the $B^0 \rightarrow \mu^+ \mu^- K^0$ decay. European Physical Journal C, 2017, 77, 678.		

#	ARTICLE	IF	CITATIONS
181	Measurement of CP asymmetry in $B_s^0 \rightarrow D_s^{\pm} K^{\pm}$ decays. Journal of High Energy Physics, 2014, 2014, 1.	1.6	14
182	Measurement of the inelastic pp cross-section at a centre-of-mass energy of $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2015, 2015, 1.	1.6	14
183	Study of $\Upsilon(2S)$ production and cold nuclear matter effects in pPb collisions at $\sqrt{s_{NN}} = 5$ TeV. Journal of High Energy Physics, 2016, 2016, 1.	1.6	14
184	Mapping the material in the LHCb vertex locator using secondary hadronic interactions. Journal of Instrumentation, 2018, 13, P06008-P06008.	0.5	14
185	Measurement of the CKM angle $\hat{\beta}$ using $B_{\pm}^{\pm} \rightarrow DK_{\pm}^{\pm}$ with $D \rightarrow K^{\pm} \pi^{\pm}, K^{\pm} K^{\pm}$ decays. Journal of High Energy Physics, 2018, 2018, 1.	1.6	14
186	Prompt $b+c$ production in pPb collisions at $\sqrt{s_{\text{NN}}} = 5.02$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	1.6	14
187	Search for CP violation in $\chi_{c1}^{\pm} \rightarrow p \bar{K}^{\pm} \pi^{\pm}$ decays using model-independent techniques. European Physical Journal C, 2020, 80, 1.	1.4	14
188	Measurement of the ratio of branching fractions $\frac{B(B \rightarrow D^{\pm} \pi^{\mp})}{B(B \rightarrow D^{\pm} K^{\mp})}$		

#	ARTICLE	IF	CITATIONS
199	Measurement of $\Upsilon'$ production in pp collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	1.6	13
200	First Observation of the Decays $B^0 \rightarrow D^+ K^-$ and $B^0 \rightarrow D^+ K^-$ . Physical Review Letters, 2012, 108, 101801.	1.6	12
201	Measurement of CP asymmetries and polarisation fractions in $B^0 \rightarrow K^* \bar{K}^* \bar{K}^* \bar{K}^*$ decays. Journal of High Energy Physics, 2015, 2015, 1.	1.6	12
202	Search for decays of neutral beauty mesons into four muons. Journal of High Energy Physics, 2017, 2017, 1.	1.6	12
203	Measurement of the inelastic pp cross-section at a centre-of-mass energy of 13 TeV. Journal of High Energy Physics, 2018, 2018, 1.	1.6	12
204	Measurement of the $B^0 \rightarrow \pi^+ \pi^-$ branching fraction and search for the decay $B^0 \rightarrow \pi^+ \pi^-$ . Journal of High Energy Physics, 2015, 2015, 1.	1.6	11
205	Search for long-lived heavy charged particles using a ring imaging Cherenkov technique at LHCb. European Physical Journal C, 2015, 75, 595.	1.4	11
206	New algorithms for identifying the flavour of $B^0$ mesons using pions and protons. European Physical Journal C, 2017, 77, 238.	1.4	11
207	First measurement of the CP-violating phase $\phi_s^{\overline{d}}$ in $B^0 \rightarrow \pi^+ \pi^- (K^* \bar{K}^*)$ decays. Journal of High Energy Physics, 2018, 2018, 1.	1.6	11
208	Search for CP violation using triple product asymmetries in $B^0 \rightarrow \pi^+ \pi^- K^* \bar{K}^*$ , $B^0 \rightarrow \pi^+ \pi^- K^* \bar{K}^*$ and $B^0 \rightarrow \pi^+ \pi^- K^* \bar{K}^*$ decays. Journal of High Energy Physics, 2018, 2018, 1.	1.6	11
209	First observation of $B^+ \rightarrow D^+ s + K^+ K^-$ decays and a search for $B^+ \rightarrow D^+ s + \bar{\nu}$ decays. Journal of High Energy Physics, 2018, 2018, 1.	1.6	11
210	First observation of the decays $B^0 \rightarrow D^+ K^-$ and $B^0 \rightarrow D^+ K^-$ . Physical Review D, 2012, 86, 10101.	1.6	10
211	Measurement of the effective lifetime of $B^0$ mesons. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 716, 393-400.	1.6	10
212	Evidence for the two-body charmless baryonic decay $B^+ \rightarrow \bar{\Lambda}^0 p$ . Journal of High Energy Physics, 2017, 2017, 1.	1.6	10
213	Study of $\overline{b}b$ correlations in high energy proton-proton collisions. Journal of High Energy Physics, 2017, 2017, 1.	1.6	10
214	Search for a dimuon resonance in the $\Upsilon'$ mass region. Journal of High Energy Physics, 2018, 2018, 1.	1.6	10
215	Measurement of branching fractions of charmless four-body $\bar{b} \rightarrow b^0$ and $\bar{b} \rightarrow b^0$ decays. Journal of High Energy Physics, 2018, 2018, 1.	1.6	10
216	Dalitz plot analysis of the $D^+ \rightarrow K^+ K^+ K^-$ decay. Journal of High Energy Physics, 2019, 2019, 1.	1.6	10

#	ARTICLE	IF	CITATIONS
217	First observation of the decay $B_s^0 \rightarrow \phi \overline{K}^{*0}$ . Journal of High Energy Physics, 2013, 2013, 1.	1.6	9
218	First observations of the rare decays $B \rightarrow \hat{t}^+ K + \bar{\ell} \ell + \hat{t}^+ \hat{t}^+ + \hat{t}^+ \hat{t}^+$ and $B \rightarrow \hat{t}^+ \bar{\ell} K + \hat{t}^+ \hat{t}^+ + \hat{t}^+ \hat{t}^+$ . Journal of High Energy Physics, 2014, 2014, 1.	1.6	9
219	Search for the $\hat{t}^+ b \rightarrow \hat{t}^+ \hat{t}^+ \hat{t}^+ \hat{t}^+$ and $\hat{t}^+ b \rightarrow \hat{t}^+ \hat{t}^+ \hat{t}^+ \hat{t}^+$ decays with the LHCb detector. Journal of High Energy Physics, 2015, 2015, 1.	1.6	9
220	Measurement of the Z+b-jet cross-section in pp collisions at $\sqrt{s} = 7$ TeV in the forward region. Journal of High Energy Physics, 2015, 2015, 1.	1.6	9
221	Model-independent measurement of the CKM angle $\hat{\beta}^3$ using $B^0 \rightarrow \hat{t}^+ D K^+ \rightarrow 0$ decays with $D \rightarrow K^+ S^0 \bar{\ell} \ell + \bar{\ell} \ell$ and $K^+ S^0 \rightarrow K^+ K^+$ . Journal of High Energy Physics, 2016, 2016, 1.	1.6	9
222	Bose-Einstein correlations of same-sign charged pions in the forward region in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	1.6	9
223	Measurement of the $\Upsilon(nS)$ polarizations in pp collisions at $\sqrt{s} = 7$ and 8 TeV. Journal of High Energy Physics, 2017, 2017, 1.	1.6	9
224	Search for lepton-flavour-violating decays of Higgs-like bosons. European Physical Journal C, 2018, 78, 1008.	1.4	9
225	Search for long-lived particles decaying to $e^+ \mu^- p \bar{p}$ . European Physical Journal C, 2021, 81, 1.	1.4	9
226	Observation of the $B_s^0 \rightarrow \hat{t}^+ \hat{t}^+ \hat{t}^+ \hat{t}^+ K^+ K^+ \hat{t}^+ \hat{t}^+$ decay. Journal of High Energy Physics, 2014, 2014, 1.	1.6	8
227	Observation of the $B_s^0 \rightarrow \hat{t}^+ \hat{t}^+ \hat{t}^+ \hat{t}^+ \hat{t}^+$ decay. Journal of High Energy Physics, 2016, 2016, 1.	1.6	8
228	Observation of the decay $\hat{t}^+ B_s^0 \rightarrow \hat{t}^+ \hat{t}^+ \hat{t}^+ \hat{t}^+ (2S) \hat{t}^+ \hat{t}^+$ . Journal of High Energy Physics, 2018, 2018, 1.	1.6	8
229	First spatial alignment of the LHCb VELO and analysis of beam absorber collision data. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2010, 618, 108-120.	0.7	7
230	Limits on neutral Higgs boson production in the forward region in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2013, 2013, 1.	1.6	7
231	Searches for $B_{(s)}^0 \rightarrow \hat{t}^+ \hat{t}^+ \hat{t}^+ \hat{t}^+ \hat{t}^+$ and $B \rightarrow \hat{t}^+ \hat{t}^+ \hat{t}^+ \hat{t}^+ \hat{t}^+$ decays. Journal of High Energy Physics, 2013, 2013, 1.	1.6	7
232	Search for the decay $B_s^0 \rightarrow \hat{t}^+ \hat{t}^+ \hat{t}^+ \hat{t}^+ \hat{t}^+$ . Physical Review D, 2013, 87, .	1.6	7
233	First observation and measurement of the branching fraction for the decay $B_s^0 \rightarrow \hat{t}^+ \hat{t}^+ \hat{t}^+ \hat{t}^+ K^+ \hat{t}^+$ . Journal of High Energy Physics, 2015, 2015, 1.	1.6	7
234	Measurement of CP observables in $B_{\hat{t}^+} \rightarrow D K^* \hat{t}^+$ decays using two- and four-body D final states. Journal of High Energy Physics, 2017, 2017, 1.	1.6	7



#	ARTICLE	IF	CITATIONS
235	Measurement of the time-integrated CP asymmetry in $D^0 \rightarrow S K^0 S$ decays. Journal of High Energy Physics, 2018, 2018, 1.	1.6	7
236	Study of the $B^0 \rightarrow \bar{K}^*(892) D$ decay with an amplitude analysis of $B^0 \rightarrow (\bar{K}^* \bar{K}^0) (K^+ \bar{K}^0)$ decays. Journal of High Energy Physics, 2019, 2019, 1.	1.6	7
237	Search for CP violation through an amplitude analysis of $D^0 \rightarrow K^+ K^- \bar{K}^0$ decays. Journal of High Energy Physics, 2019, 2019, 1.	1.6	7
238	Publisher's Note: Evidence for CP Violation in Time-Integrated $D^0 \rightarrow h^+ h^-$ decay rates [Phys. Rev. Lett. 108, 111602 (2012)]. Physical Review Letters, 2012, 108, .	2.9	6
239	Measurement of CP observables in $B^0 \rightarrow DK^+ K^-$ with $D \rightarrow K^+ K^-$ . Journal of High Energy Physics, 2013, 2013, 1.6	1.6	6
240	Determination of the branching fractions of $B^0 \rightarrow D^+ S^- K^+$ and $B^0 \rightarrow D^+ S^- K^+$ . Journal of High Energy Physics, 2015, 2015, 1.	1.6	6
241	Measurement of $Z \rightarrow \bar{l}, +l, \bar{\nu}$ production in proton-proton collisions at $\sqrt{s}=8$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	1.6	6
242	First observation of the decay $B^0 \rightarrow K^+ K^- (892)^0$ at LHCb. Journal of High Energy Physics, 2016, 2016, 1. 5	1.6	5
243	Measurement of $D_{\pm}^{\pm}$ s production asymmetry in pp collisions at $\sqrt{s}=7$ and 8 TeV. Journal of High Energy Physics, 2018, 2018, 1.	1.6	5
244	Measurement of the ratio of branching fractions of the decays $B^0 \rightarrow \bar{K}^*(2S) \bar{l}$ and $B^0 \rightarrow \bar{K}^* \bar{l}$ . Journal of High Energy Physics, 2019, 2019, 1.	1.6	5
245	Measurement of forward top pair production in the dilepton channel in pp collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	1.6	4
246	Measurement of CP violation in $B^0 \rightarrow D^+ \bar{K}^0$ decays. Journal of High Energy Physics, 2018, 2018, 1.	1.6	4
247	First results of an aging test of a full scale MWPC prototype for the LHCb muon system. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2003, 515, 220-225.	0.7	3
248	Search for the $B^0 \rightarrow \bar{K}^* \bar{K}^0$ decay. Journal of High Energy Physics, 2017, 2017, 1.	1.6	3
249	Measurement of the ratio of branching fractions and difference in CP asymmetries of the decays $B^+ \rightarrow \bar{K}^* K^+$ and $B^+ \rightarrow \bar{K}^* K^+$ . Journal of High Energy Physics, 2017, 2017, 1.	1.6	3
250	High-level triggers in ATLAS. IEEE Transactions on Nuclear Science, 2002, 49, 377-382.	1.2	2
251	Measurement of the CP asymmetry in $B^+ \rightarrow D^+ S^0$ and $B^+ \rightarrow \bar{D}^+ D^0$ decays. Journal of High Energy Physics, 2018, 2018, 1.	1.6	2
252	Observation of the doubly Cabibbo-suppressed decay $\bar{K}^* \rightarrow \bar{K}^0 \pi^+$ . Journal of High Energy Physics, 2019, 2019, 1. 2	1.6	2

#	ARTICLE	IF	CITATIONS
253	Search for the rare decay $B^0 \rightarrow J/\psi \ell^+ \ell^-$ . Chinese Physics C, 2021, 45, 043001.	1.5	2
254	Observation of double charm production involving open charm in pp collisions at $\sqrt{s} = 7$ TeV. , 2012, 2012, 1.		2
255	First measurement of the CP-violating phase in $B^0 \rightarrow J/\psi \ell^+ \ell^-$ . Physical Review Letters, 2014, 112, 011801.	1.4	2
256	Search for massive long-lived particles decaying semileptonically at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2022, 82, .	1.4	2
257	Recent results and prospects for NA62 experiment. Nuclear and Particle Physics Proceedings, 2017, 285-286, 104-109.	0.2	1
258	Radiation Damage Effects and Operation of the LHCb Vertex Locator. IEEE Transactions on Nuclear Science, 2018, 65, 1127-1132.	1.2	1
259	Observation of the decay $\overline{B}_s^0 \rightarrow \chi_{c2} K^+ K^-$ in the $\bar{D}^*$ mass region. Journal of High Energy Physics, 2018, 2018, 1.	1.6	1
260	Readout Firmware of the Vertex Locator for LHCb Run 3 and Beyond. IEEE Transactions on Nuclear Science, 2021, 68, 2472-2479.	1.2	1
261	The HEV Ventilator: at the interface between particle physics and biomedical engineering. Royal Society Open Science, 2022, 9, 211519.	1.1	1
262	Measurements of $\hat{\Gamma}_B$ at the B-Factories. Nuclear Physics, Section B, Proceedings Supplements, 2007, 167, 155-158.	0.5	0
263	Rare decays at LHCb. Nuclear Physics, Section B, Proceedings Supplements, 2012, 233, 145-150.	0.5	0
264	Prospects for observation at CERN in NA62. Journal of Physics: Conference Series, 2015, 631, 012041.	0.3	0
265	BayronicbDecays at LHCb. Journal of Physics: Conference Series, 2016, 770, 012014.	0.3	0
266	Prospects for observation of $B^0 \rightarrow K^+ K^- \ell^+ \ell^-$ at the LHCb experiment. Nuclear Physics, Section B, Proceedings Supplements, 2017, 282-284, 101-105.		
267	Search for $B^0 \rightarrow K^+ K^- \ell^+ \ell^-$ at the LHCb experiment. Nuclear Physics, Section B, Proceedings Supplements, 2017, 282-284, 101-105.		
268	NA62 and NA48/2 results on search for Heavy Neutral Leptons. EPJ Web of Conferences, 2018, 179, 01009.	0.1	0