

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/7962770/adriano-lai-publications-by-citations.pdf>

**Version:** 2024-04-09

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

307 papers	7,273 citations	41 h-index	73 g-index
335 ext. papers	8,752 ext. citations	4.4 avg, IF	2.96 L-index

#	Paper	IF	Citations
307	The LHCb Detector at the LHC. <i>Journal of Instrumentation</i> , <b>2008</b> , 3, S08005-S08005	1	622
306	Test of lepton universality with $B^0 \rightarrow K^{*0} \ell^+ \ell^-$ decays. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1	5.4	298
305	Angular analysis of the $B^0 \rightarrow K^{*0} \ell^+ \ell^-$ decay using 3 fb <sup>-1</sup> of integrated luminosity. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1	5.4	232
304	A new measurement of direct CP violation in two pion decays of the neutral kaon. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>1999</b> , 465, 335-348	4.2	220
303	Measurement of $J/\psi$ production in pp collisions at ( $\sqrt{s}=7$ ) TeV. <i>European Physical Journal C</i> , <b>2011</b> , 71, 1	4.2	216
302	The beam and detector for the NA48 neutral kaon CP violation experiment at CERN. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2007</b> , 574, 433-471	1.2	147
301	Differential branching fractions and isospin asymmetries of $B \rightarrow K^{(*)} \ell^+ \ell^-$ decays. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1	5.4	142
300	Angular analysis and differential branching fraction of the decay $B^0 \rightarrow \pi^+ \pi^-$ . <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1	5.4	138
299	Measurements of $G_E/G_M$ from the $2H(e \rightarrow e, n \rightarrow p)1H$ Reaction to $Q^2=1.45$ (GeV/c) <sup>2</sup> . <i>Physical Review Letters</i> , <b>2003</b> , 91, 122002	7.4	138
298	Observation of $X(3872)$ production in pp collisions at ( $\sqrt{s}=7$ TeV). <i>European Physical Journal C</i> , <b>2012</b> , 72, 1	4.2	121
297	Performance of the LHCb muon system. <i>Journal of Instrumentation</i> , <b>2013</b> , 8, P02022-P02022	1	120
296	Implications of LHCb measurements and future prospects. <i>European Physical Journal C</i> , <b>2013</b> , 73, 1	4.2	116
295	Order of the deconfining phase transition in pure-gauge QCD. <i>Physical Review Letters</i> , <b>1988</b> , 61, 1545-1548	7.4	108
294	Differential branching fraction and angular analysis of the decay $B^0 \rightarrow K^{*0} \ell^+ \ell^-$ . <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1	5.4	99
293	Measurement of $\Lambda$ polarization in collisions at [Formula: see text]. <i>European Physical Journal C</i> , <b>2013</b> , 73, 2631	4.2	87
292	Differential branching fraction and angular analysis of the decay ( $B_s^0 \rightarrow \pi^+ \pi^-$ ). <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1	5.4	86
291	Observation of double charm production involving open charm in pp collisions at ( $\sqrt{s} = 7$ TeV). <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1	5.4	86

290	Measurement of production in collisions at [Formula: see text]. <i>European Physical Journal C</i> , <b>2012</b> , 72, 2025	4.2	83
289	Measurement of the fragmentation fraction ratio $f_s/f_d$ and its dependence on B meson kinematics. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1	5.4	78
288	Study of D J meson decays to $D + \pi^0 \pi^0$ and $D^* + \pi^0$ final states in pp collisions. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1	5.4	69
287	Measurements of prompt charm production cross-sections in pp collisions at ( $\sqrt{s}=13$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1	5.4	65
286	Differential branching fraction and angular analysis of the $B \rightarrow K + \pi^0 \pi^0$ decay. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1	5.4	63
285	Measurement of (2) meson production in collisions at [Formula: see text]. <i>European Physical Journal C</i> , <b>2012</b> , 72, 2100	4.2	63
284	Study of J/ $\psi$ production and cold nuclear matter effects in pPb collisions at ( $\sqrt{s_{NN}} = 5$ TeV. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1	5.4	60
283	Inclusive W and Z production in the forward region at ( $\sqrt{s} = 7, \text{TeV}$ ). <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1	5.4	60
282	Search for $A^0 \rightarrow \pi^0 \pi^0$ Decays. <i>Physical Review Letters</i> , <b>2020</b> , 124, 041801	7.4	60
281	Measurement of the isospin asymmetry in $B \rightarrow K^{(*)} \pi^0$ decays. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1	5.4	59
280	A triple GEM detector with pad readout for high rate charged particle triggering. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2002</b> , 488, 493-502	1.2	59
279	Production of J/ $\psi$ and ( $\varphi$ ) mesons in pp collisions at ( $\sqrt{s}=8$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1	5.4	58
278	The hadronic mass spectrum in quenched lattice QCD: Results at $\beta = 5.7$ and $\beta = 6.0$ . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>1988</b> , 214, 115-119	4.2	57
277	Performance of the Muon Identification at LHCb. <i>Journal of Instrumentation</i> , <b>2013</b> , 8, P10020-P10020	1	56
276	The hadronic mass spectrum in quenched lattice QCD: $\beta=5.7$ . <i>Nuclear Physics B</i> , <b>1989</b> , 317, 509-525	2.8	54
275	THE APE-100 COMPUTER: (I) THE ARCHITECTURE. <i>International Journal of High Speed Computing</i> , <b>1993</b> , 05, 637-656		51
274	Measurements of the S-wave fraction in $B^0 \rightarrow K + \pi^0 \pi^0$ decays and the $B^0 \rightarrow K^{*}(892)^0 \pi^0$ differential branching fraction. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1	5.4	48
273	Measurement of forward J/ $\psi$ production cross-sections in pp collisions at ( $\sqrt{s}=13$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1	5.4	47

272	Measurement of B meson production cross-sections in proton-proton collisions at ( $\sqrt{s}=7$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1	5-4	45
271	The ratio of proton electromagnetic form factors via recoil polarimetry at $Q^2=1.13(\text{GeV}/c)^2$ . <i>Nuclear Physics A</i> , <b>2006</b> , 764, 261-273	1-3	45
270	Measurement of the branching ratio of the decay $K_L \rightarrow \pi^0 \pi^0$ and extraction of the CKM parameter $ V_{us} $ . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2004</b> , 602, 41-51	4-2	45
269	Measurement of the cross-section for $Z \rightarrow e^+e^-$ production in pp collisions at ( $\sqrt{s}=7$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1	5-4	43
268	Measurement of CP asymmetry in $D^0 \rightarrow K^+ K^-$ and $D^0 \rightarrow \pi^+ \pi^-$ decays. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1	5-4	42
267	Measurement of the exclusive $\Lambda$ production cross-section in pp collisions at ( $\sqrt{s}=7$ ) TeV and 8 TeV. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1	5-4	42
266	Measurement of the $[ \text{Formula: see text} ]$ production cross-section in proton-proton collisions via the decay $[ \text{Formula: see text} ]$ . <i>European Physical Journal C</i> , <b>2015</b> , 75, 311	4-2	41
265	Search for the doubly charmed baryon ( $\Xi_{cc}^{++}$ ). <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1	5-4	41
264	Opposite-side flavour tagging of mesons at the LHCb experiment. <i>European Physical Journal C</i> , <b>2012</b> , 72, 2022	4-2	39
263	Precise measurement of the decay $K_L \rightarrow \pi^0 \pi^0$ . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2002</b> , 536, 229-240	4-2	39
262	First observation of the decay ( $B_c^+ \rightarrow [J \text{ left/ } \{ \psi \{ K^+ \} \} \text{ right.} ]$ ). <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1	5-4	36
261	decay to in annihilation at rest. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>1995</b> , 361, 187-198	4-2	36
260	Search for massive long-lived particles decaying semileptonically in the LHCb detector. <i>European Physical Journal C</i> , <b>2017</b> , 77, 224	4-2	35
259	Measurement of $[ \text{Formula: see text} ]$ polarisation in $[ \text{Formula: see text} ]$ collisions at $[ \text{Formula: see text} ] = 7$ TeV. <i>European Physical Journal C</i> , <b>2014</b> , 74, 2872	4-2	35
258	First observation of the decay $B^+ \rightarrow \bar{D}^0 \pi^+ \pi^0$ . <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1	5-4	35
257	Study of the $D^0 p$ amplitude in $\bar{D}^0 b \rightarrow D^0 p \pi^0$ decays. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1	5-4	33
256	Charged excitons, Auger recombination and optical gain in CdSe/CdS nanocrystals. <i>Nanotechnology</i> , <b>2012</b> , 23, 015201	3-4	33
255	Measurement of the relative rate of prompt $\bar{t}t$ , $t\bar{t}$ and $t\bar{t}$ production at ( $\sqrt{s}=7$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1	5-4	31

254	Measurement of the forward Z boson production cross-section in pp collisions at ( $\sqrt{s}=7$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1	5.4	31
253	Measurement of . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2007</b> , 647, 341-350	4.2	31
252	Measurement of . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2004</b> , 604, 1-10	4.2	31
251	The deconfining phase transition in lattice gauge SU(3). <i>Nuclear Physics B</i> , <b>1989</b> , 318, 553-578	2.8	31
250	Study of the kinematic dependences of $\Upsilon$ b production in pp collisions and a measurement of the $\Upsilon$ b $\rightarrow$ $\Upsilon$ c $\Upsilon$ branching fraction. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1	5.4	30
249	Observation of the $\Upsilon$ b $\rightarrow$ $J/\psi$ $\Upsilon$ decay. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1	5.4	29
248	Measurement of $J/\psi$ production in pp collisions at ( $\sqrt{s}=2.76;\mathrm{TeV}$ ). <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1	5.4	28
247	Study of prompt $D^0$ meson production in pPb collisions at ( $\sqrt{s_{\mathrm{NN}}}=5$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1	5.4	27
246	Addendum: Observation of double charm production involving open charm in pp collisions at ( $\sqrt{s}$ ) = 7 TeV. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1	5.4	27
245	Study of ( $\varphi$ ) production and cold nuclear matter effects in pPb collisions at ( $\sqrt{s_{\mathrm{NN}}}$ ) = 5 TeV. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1	5.4	27
244	Measurement of b hadron fractions in 13 TeV pp collisions. <i>Physical Review D</i> , <b>2019</b> , 100,	4.9	26
243	Search for long-lived particles decaying to jet pairs. <i>European Physical Journal C</i> , <b>2015</b> , 75, 152	4.2	26
242	Measurement of the phase difference between short- and long-distance amplitudes in the [Formula: see text] decay. <i>European Physical Journal C</i> , <b>2017</b> , 77, 161	4.2	25
241	First measurement of time-dependent CP violation in ( $B_s^0 \rightarrow \{K^+\}\{K^-\}$ ) decays. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1	5.4	25
240	Measurement of the $J/\psi$ pair production cross-section in pp collisions at ( $\sqrt{s}=13$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1	5.4	25
239	Production of associated Y 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> , <b>2016</b> , 2016, 1	5.4	25
238	Measurement of charged particle multiplicities in pp collisions at ( $\sqrt{s}=7\sim\mathrm{TeV}$ ) in the forward region. <i>European Physical Journal C</i> , <b>2012</b> , 72, 1	4.2	24
237	New measurements of the $\Upsilon$ and $K^0$ masses. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2002</b> , 533, 196-206	4.2	24

236	Updated search for long-lived particles decaying to jet pairs. <i>European Physical Journal C</i> , <b>2017</b> , 77, 812	4.2	23
235	Measurement of prompt hadron production ratios in pp collisions at ( $\sqrt{s} = 0.9$ and $7\text{ TeV}$ ). <i>European Physical Journal C</i> , <b>2012</b> , 72, 1	4.2	23
234	A search for axial vectors in annihilations at rest in gaseous hydrogen at NTP. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>1997</b> , 400, 226-238	4.2	23
233	Measurement of the CKM angle $\Gamma$ from a combination of LHCb results. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1	5.4	23
232	Search for the lepton flavour violating decay $\mu \rightarrow e \gamma$ . <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1	5.4	22
231	Observation of New Resonances in the $B^0 \rightarrow \pi^+ \pi^-$ System. <i>Physical Review Letters</i> , <b>2019</b> , 123, 152001	7.4	22
230	Measurement of the $B^0 \rightarrow K^0 e^+ e^-$ branching fraction at low dilepton mass. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1	5.4	22
229	Measurement of the forward-backward asymmetry in $Z/\gamma \rightarrow \ell^+ \ell^-$ decays and determination of the effective weak mixing angle. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1	5.4	22
228	Measurement of mixing and CP violation parameters in two-body charm decays. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1	5.4	22
227	Precision resonance energy scans with the PANDA experiment at FAIR. <i>European Physical Journal A</i> , <b>2019</b> , 55, 1	2.5	21
226	Forward production of $\Upsilon$ mesons in pp collisions at ( $\sqrt{s}=7$ ) and 8 TeV. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1	5.4	21
225	Search for beautiful tetraquarks in the $\psi(1S)$ invariant-mass spectrum. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	21
224	Measurement of charged particle multiplicities and densities in $\sqrt{s}=2.76$ TeV collisions at $\sqrt{s}=2.76$ TeV in the forward region. <i>European Physical Journal C</i> , <b>2014</b> , 74, 2888	4.2	20
223	Observation of the decay $(B_c^{+}) \rightarrow J/\psi + K^0$ . <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1	5.4	20
222	Angular analysis of the $B^0 \rightarrow K^0 e^+ e^-$ decay in the low- $q^2$ region. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1	5.4	20
221	Study of forward Z + jet production in pp collisions at ( $\sqrt{s}$ ) = 7 TeV. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1	5.4	20
220	Gallium arsenide photodetectors for imaging in the far ultraviolet region. <i>Applied Physics Letters</i> , <b>2002</b> , 81, 1506-1508	3.4	20
219	Amplitude analysis of the $B^+ \rightarrow \pi^0 \pi^+$ decay. <i>Physical Review D</i> , <b>2020</b> , 101,	4.9	19

218	Measurements of the branching fractions of [Formula: see text] decays. <i>European Physical Journal C</i> , <b>2013</b> , 73, 2462	4.2	19
217	Measurement of the $B \rightarrow \pi$ production cross-section in pp collisions at $(\sqrt{s}) = 7$ TeV. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1	5.4	19
216	Precise measurements of the $K_S \rightarrow \pi$ and $K_L \rightarrow \pi$ decay rates. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2003</b> , 551, 7-15	4.2	19
215	First Observation of Excited $\chi_{b1}^{\prime}$ States. <i>Physical Review Letters</i> , <b>2020</b> , 124, 082002	7.4	18
214	Observation of Several Sources of CP Violation in $B^+ \rightarrow \pi^+ \pi^0 \pi^0$ Decays. <i>Physical Review Letters</i> , <b>2020</b> , 124, 031801	7.4	18
213	Searches for $(\Lambda_b^0)$ and $(\Xi_b^0)$ decays to $(K_{\text{S}}^0 \pi^0)$ and $(K_{\text{S}}^0 \pi^+ \pi^-)$ final states with first observation of the $(\Lambda_b^0 \rightarrow K_{\text{S}}^0 \pi^0 \pi^0)$ decay. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1	5.4	18
212	Angular analysis of charged and neutral $B \rightarrow K \pi$ decays. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1	5.4	18
211	Measurement of relative branching fractions of decays to $(2)$ and $(1)$ mesons. <i>European Physical Journal C</i> , <b>2012</b> , 72, 2118	4.2	18
210	Measurement of the forward energy flow in collisions at [Formula: see text]. <i>European Physical Journal C</i> , <b>2013</b> , 73, 2421	4.2	17
209	Measurement of forward $Z \rightarrow e^+ e^-$ production at $(\sqrt{s}=8)$ TeV. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1	5.4	17
208	Measurement of the $B(3P)$ mass and of the relative rate of $B(1P)$ and $B(2P)$ production. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1	5.4	17
207	Measurement of the fraction of $\chi(1S)$ originating from $B(1P)$ decays in pp collisions at $(\sqrt{s}=7, \text{TeV})$ . <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1	5.4	17
206	Measurement of the ratio $R_{\pi}$ . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2007</b> , 645, 26-35	4.2	17
205	Performances of the OBELIX time of flight system. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>1995</b> , 356, 270-279 <sup>1,2</sup>		17
204	Observations of $\Lambda_b \rightarrow \bar{K}^0$ and $\Lambda_b \rightarrow \bar{K}^0 + K^0$ decays and searches for other $\Lambda_b$ and $\Lambda_b$ decays to $\bar{K}^0 + h^0$ final states. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1	5.4	17
203	Angular moments of the decay $\Lambda_b \rightarrow \bar{K}^0$ at low hadronic recoil. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	17
202	The active muon shield in the SHiP experiment. <i>Journal of Instrumentation</i> , <b>2017</b> , 12, P05011-P05011	1	16
201	Near-threshold $(\text{D})^{\overline{(\text{D})}}$ spectroscopy and observation of a new charmonium state. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	16



200	Evidence for the decay $(\mathrm{B}_{\mathrm{c}}^{+} \rightarrow \mathrm{J} \left/ \left\{ \psi(3686) \right\} \right. \text{right.})$ . <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1	5.4	16
199	Search for CP violation using T-odd correlations in $D^0 \rightarrow K^+ K^-$ decays. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1	5.4	16
198	The DIALOG chip in the front-end electronics of the LHCb muon detector. <i>IEEE Transactions on Nuclear Science</i> , <b>2005</b> , 52, 2726-2732	1.7	16
197	Measurement of the $\psi(4440) \rightarrow K^+ K^- L^0$ production rates from annihilation at rest at three different hydrogen target densities. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>1996</b> , 385, 493-499	4.2	16
196	Search for Higgs-like bosons decaying into long-lived exotic particles. <i>European Physical Journal C</i> , <b>2016</b> , 76, 664	4.2	16
195	Search for the lepton-flavour violating decays $B^0(s) \rightarrow e^+ \mu^-$ . <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	15
194	Observation of Z production in proton-lead collisions at LHCb. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1	5.4	15
193	Observation of $\Lambda_b^- \rightarrow \psi(2S) p K^-$ and $\Lambda_b^- \rightarrow J/\psi p K^-$ decays and a measurement of the $\Lambda_b$ baryon mass. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1	5.4	15
192	Evidence for the decay $(\mathrm{B}_{\mathrm{c}}^{+} \rightarrow \overline{\mathrm{K}}^0 \mu^{+} \mu^{-})$ . <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	15
191	Precise measurements of the properties of the $B(5721)^{0,+}$ and $B^{*2}(5747)^{0,+}$ states and observation of $B_{\mathrm{c}}^{+}$ mass structures. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1	5.4	14
190	Precision measurement of the $\Lambda^+$ , $\Lambda^0$ , and $\Lambda^-$ baryon lifetimes. <i>Physical Review D</i> , <b>2019</b> , 100,	4.9	14
189	Search for CP violation in $D^+ \rightarrow \pi^+ \pi^0$ and $(D_{\mathrm{s}}^{+} \rightarrow K_{\mathrm{s}}^0 \pi^{+})$ decays. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1	5.4	14
188	Measurement of the forward W boson cross-section in pp collisions at $(\sqrt{s}=7)$ TeV. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1	5.4	14
187	The deconfining phase transition and the glueball channels in pure gauge QCD. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>1989</b> , 220, 607-610	4.2	14
186	Amplitude Analysis of $B^0 \rightarrow \pi^0 K^+ K^-$ Decays. <i>Physical Review Letters</i> , <b>2019</b> , 123, 231802	7.4	14
185	Search for excited $B + c$ states. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	13
184	A study of the Z production cross-section in pp collisions at $(\sqrt{s}=7, \text{TeV})$ using tau final states. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1	5.4	13
183	Resonances and CP violation in $B^0$ and $(\overline{B}_{\mathrm{s}}^0 \rightarrow J/\psi K^+ K^-)$ decays in the mass region above the $\psi(1020)$ . <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1	5.4	13



182	Measurement of the inelastic pp cross-section at a centre-of-mass energy of $(\sqrt{s}) = 7$ TeV. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1	5.4	13
181	The design of a system for coloured digital radiology with VLSI circuits and GaAs pixel detectors. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>1998</b> , 419, 270-275	1.2	13
180	Search for CP violation in $B^0 \rightarrow \pi^0 \pi^0$ . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2005</b> , 610, 165-176	4.2	13
179	Measurement of the decay rate and form factor parameter $ V_{cb} $ in the decay $K_L \rightarrow e^+ e^- \pi^0$ . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>1999</b> , 458, 553-563	4.2	13
178	Search for the doubly charmed baryon ( $\Xi_{cc}^{++}$ ). <i>Science China: Physics, Mechanics and Astronomy</i> , <b>2020</b> , 63, 1	3.6	13
177	Measurement of the forward Z boson production cross-section in pp collisions at $(\sqrt{s}=13)$ TeV. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1	5.4	13
176	Search for the Lepton-Flavor-Violating Decays $B_{s,d}^0 \rightarrow \mu^{\pm} \tau^{\mp} \pi^0$ and $B^0 \rightarrow \mu^{\pm} \tau^{\mp} \pi^0$ . <i>Physical Review Letters</i> , <b>2019</b> , 123, 211801	7.4	13
175	Test of lepton universality with $(\Lambda_b^0 \rightarrow p K^+ \ell^- \bar{\ell}^+)$ decays. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5.4	12
174	Measurement of CP violation parameters and polarisation fractions in $(B_{s,d}^0 \rightarrow J/\psi \pi^0)$ decays. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1	5.4	12
173	High-Resolution Synthesizable Digitally-Controlled Delay Lines. <i>IEEE Transactions on Nuclear Science</i> , <b>2015</b> , 62, 3163-3171	1.7	12
172	Measurement of $V_0$ production ratios in pp collisions at $(\sqrt{s} = 0.9)$ and 7 TeV. <i>Journal of High Energy Physics</i> , <b>2011</b> , 2011, 1	5.4	12
171	A measurement of the KS lifetime. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2002</b> , 537, 28-40	4.2	12
170	Far UV responsivity of commercial silicon photodetectors. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2001</b> , 466, 115-118	1.2	12
169	A new computation of the correlation length near the deconfining transition in SU(3). <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>1989</b> , 224, 333-338	4.2	12
168	Measurement of the inelastic pp cross-section at a centre-of-mass energy of 13 TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	12
167	Precision measurement of the $(\Xi_{cc}^{++})$ mass. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5.4	11
166	Differential branching fraction and angular moments analysis of the decay $B^0 \rightarrow K^+ K^- \pi^0$ in the $K^*_{0,2}(1430)^0$ region. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1	5.4	11
165	Measurement of the time-integrated CP asymmetry in $D^0 \rightarrow K^0 S K^0 S$ decays. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1	5.4	11

164	Observation of the decay $KS \rightarrow \pi\pi + e\pi$ . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2000</b> , 496, 137-144	4.2	11
163	Studies of the resonance structure in decays. <i>European Physical Journal C</i> , <b>2018</b> , 78, 443	4.2	11
162	Study of charmonium production in $\pi$ -hadron decays and first evidence for the decay. <i>European Physical Journal C</i> , <b>2017</b> , 77, 609	4.2	10
161	3D trenched-electrode sensors for charged particle tracking and timing. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2019</b> , 927, 24-30	1.2	10
160	Study of $\Upsilon(2S)$ production and cold nuclear matter effects in pPb collisions at $(\sqrt{s_{NN}}=5)$ TeV. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1	5.4	10
159	Search for the rare decay $(K_{\mathrm{S}}^0 \rightarrow \mu^+ \mu^-)$ . <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1	5.4	10
158	Observation of the suppressed decay $B \rightarrow p \pi^+ \pi^-$ . <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1	5.4	10
157	Search for the decay $(B_s^0 \rightarrow \overline{D}^0 F_0(980))$ . <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1	5.4	10
156	Measurement of CP asymmetry in $B \rightarrow D^* K$ decays. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1	5.4	10
155	An active electron polarized scintillating GSO target for neutrino physics. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2012</b> , 694, 335-340	1.2	10
154	DIALOG and SYNC: a VLSI chip set for timing of the LHCb muon detector. <i>IEEE Transactions on Nuclear Science</i> , <b>2004</b> , 51, 1961-1967	1.7	10
153	Search for the decay $KS \rightarrow \pi\pi + e\pi$ . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2001</b> , 514, 253-262	4.2	10
152	From APE to APE-100: From 1 to 100 gflops in lattice gauge theory simulations. <i>Computer Physics Communications</i> , <b>1989</b> , 57, 285-289	4.2	10
151	Prompt $\bar{c}$ production in pPb collisions at $(\sqrt{s_{NN}}=5.02)$ TeV. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	10
150	Measurement of the annihilation frequencies in a 5 mb hydrogen gas target. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>1994</b> , 329, 407-412	4.2	9
149	Measurement of the $(\eta_c(1S))$ production cross-section in $(p-p)$ collisions at $(\sqrt{s}=13)$ (TeV). <i>European Physical Journal C</i> , <b>2020</b> , 80, 1	4.2	9
148	Measurement of the CKM angle $\gamma$ using $B \rightarrow DK$ with $D \rightarrow K \pi \pi$ or $D \rightarrow K \pi \pi$ decays. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	9
147	Search for the rare decay $(B^+ \rightarrow \mu^+ \mu^- \mu^+ \mu^-)$ . <i>European Physical Journal C</i> , <b>2019</b> , 79, 1	4.2	8

146	Measurement of branching fractions of charmless four-body $B^0 \rightarrow \pi^0 \pi^0 \pi^0 \pi^0$ and $B^0 \rightarrow \pi^0 \pi^0 \pi^0 \pi^0$ decays. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	8
145	Measurement of polarization amplitudes and CP asymmetries in $B^0 \rightarrow \pi^0 \pi^0 \pi^0 \pi^0$ . <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1	5.4	8
144	Measurement of the $B^0 \rightarrow \pi^0 \pi^0$ branching fraction and search for the decay $B^0 \rightarrow \pi^0 \pi^0$ . <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1	5.4	8
143	Search for long-lived heavy charged particles using a ring imaging Cherenkov technique at LHCb. <i>European Physical Journal C</i> , <b>2015</b> , 75, 595	4.2	8
142	Search for CP violation in $D^0 \rightarrow K^0 S K^0$ and $D^0 \rightarrow K^0 S \bar{K}^0$ decays. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1	5.4	8
141	First observation of the $K_S \rightarrow \pi^0 \pi^0$ decay. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2004</b> , 578, 276-284	4.2	8
140	Search for the decay $K_S \rightarrow \pi^0 \pi^0$ . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2003</b> , 556, 105-113	4.2	8
139	Search for the lepton flavour violating decay $B^+ \rightarrow K^+ \mu^+ \mu^-$ using $(B^+ \rightarrow \pi^+ \pi^0 \pi^0)$ decays. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5.4	8
138	Measurement of forward W and Z boson production in association with jets in proton-proton collisions at $(\sqrt{s}=8)$ TeV. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1	5.4	8
137	Measurement of forward W $\rightarrow e \nu$ production in pp collisions at $(\sqrt{s}=8)$ TeV. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1	5.4	8
136	Search for Lepton-Flavor Violating Decays $B^{+,-} \rightarrow K^{+,-} \mu^{\pm} e^{\mp}$ . <i>Physical Review Letters</i> , <b>2019</b> , 123, 241802	4.2	8
135	Study of $\eta'$ production in pPb collisions at $(\sqrt{s_{\mathrm{NN}}}=8.16)$ TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	8
134	Improved limit on the branching fraction of the rare decay. <i>European Physical Journal C</i> , <b>2017</b> , 77, 678	4.2	7
133	Measurement of the Z+b-jet cross-section in pp collisions at $(\sqrt{s}) = 7$ TeV in the forward region. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1	5.4	7
132	Study of $D^0 \rightarrow \pi^0 \pi^0$ mesons decaying to $D^0 \rightarrow \pi^0 \pi^0$ and $D^0 \rightarrow \pi^0 \pi^0$ final states. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1	5.4	7
131	Observation of the $B^0 \rightarrow J/\psi \pi^0$ decay. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1	5.4	7
130	Updated measurement of time-dependent (CP)-violating observables in $(B^0 \rightarrow J/\psi K^+ K^-)$ decays. <i>European Physical Journal C</i> , <b>2019</b> , 79, 1	4.2	7
129	First observation of the decay $(B_s^0 \rightarrow \pi^0 \pi^0 \pi^0)$ . <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1	5.4	7

128	Search for decays of neutral beauty mesons into four muons. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1	5-4	7
127	First observations of the rare decays $B \rightarrow K + \pi^0 \pi^0$ and $B \rightarrow K + \pi^0 \pi^0$ <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1	5-4	7
126	Status of triple GEM muon chambers for the LHCb experiment. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2007</b> , 581, 283-286	1-2	7
125	Search for CP violation in $(\chi_c^+ \rightarrow p \bar{K}^0 \pi^+)$ decays using model-independent techniques. <i>European Physical Journal C</i> , <b>2020</b> , 80, 1	4-2	7
124	Observation of a new baryon state in the $(\Lambda_b^0 \pi^+ \pi^-)$ mass spectrum. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5-4	7
123	Measurement of $f_s/f_u$ Variation with Proton-Proton Collision Energy and B-Meson Kinematics. <i>Physical Review Letters</i> , <b>2020</b> , 124, 122002	7-4	7
122	Search for a dimuon resonance in the $\eta$ mass region. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5-4	7
121	Search for CP violation using triple product asymmetries in $B \rightarrow p \bar{K}^0 \pi^0$ and $B \rightarrow p \bar{K}^0 \pi^0$ decays. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5-4	7
120	Measurement of $ V_{cb} $ with $B_s^0 \rightarrow D_s^* \pi^0$ decays. <i>Physical Review D</i> , <b>2020</b> , 101,	4-9	6
119	First measurement of the CP-violating phase $(\phi_s^{\overline{D}})$ in $B^0 \rightarrow (K^+ \pi^-)$ decays. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5-4	6
118	Development of 3D trenched-electrode pixel sensors with improved timing performance. <i>Journal of Instrumentation</i> , <b>2019</b> , 14, C07011-C07011	1	6
117	Measurements of CP asymmetries in charmless four-body $(\Lambda_b^0)$ and $(\chi_c^0)$ decays. <i>European Physical Journal C</i> , <b>2019</b> , 79, 1	4-2	6
116	Measurement of CP observables in $B^0 \rightarrow DK^0$ with $D \rightarrow K + K$ <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1	5-4	6
115	Searches for $(B_{(s)}^0 \rightarrow J/\psi p) \overline{p}$ and $B^+ \rightarrow J/\psi (\overline{p}) \pi^+$ decays. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1	5-4	6
114	Measurement of the $Y(nS)$ polarizations in pp collisions at $(\sqrt{s}=7)$ and 8 TeV. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1	5-4	6
113	Measurement of CP asymmetries and polarisation fractions in $(B_s^0 \rightarrow K^{\pm} \pi^{\mp})$ decays. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1	5-4	6
112	Search for the $B \rightarrow \pi$ and $B \rightarrow \pi$ decays with the LHCb detector. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1	5-4	6
111	Measurement of the decay rate and the parameter $\Gamma K^*$ of the decay $KL \rightarrow \pi$ <i>Zeitschrift für Physik C-Particles and Fields</i> , <b>1997</b> , 76, 653-657		6

110	The Off Detector Electronics of the LHCb Muon Detector <b>2006</b> ,		6
109	A fast triple-GEM detector for high-rate charged-particle triggering. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2002</b> , 478, 245-249	1.2	6
108	Measurement of the radiative $\text{Ke3}$ branching ratio. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2005</b> , 605, 247-255	4.2	6
107	. <i>IEEE Transactions on Nuclear Science</i> , <b>1995</b> , 42, 812-819	1.7	6
106	Intrinsic time resolution of 3D-trench silicon pixels for charged particle detection. <i>Journal of Instrumentation</i> , <b>2020</b> , 15, P09029-P09029	1	6
105	A precise measurement of the [Formula: see text] meson oscillation frequency. <i>European Physical Journal C</i> , <b>2016</b> , 76, 412	4.2	6
104	Model-independent measurement of the CKM angle $\beta$ using $B^0 \rightarrow DK^{*0}$ decays with $D \rightarrow K^0 S^{\pm} \pi^{\mp}$ and $K^0 S^{\pm} K^{\pm} \pi^{\mp}$ <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1	5.4	6
103	Measurement of $\gamma$ production in pp collisions at $(\sqrt{s}=13)$ TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	6
102	First observation of $B^+ \rightarrow D^+ s^+ K^+ K^-$ decays and a search for $B^+ \rightarrow D^+ s^+ \gamma$ decays. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	6
101	Observation of the $(\Lambda_{\text{b}}^0 \rightarrow \text{upchi}_{\text{c}}^0)$ (3872) pK decay. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	5
100	Amplitude analysis of $B^0 \rightarrow K^0 S^+ K^-$ decays. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	5
99	Observation of the $B^0 \rightarrow J/\psi K^+ K^-$ decay. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1	5.4	5
98	Study of $(\overline{\text{b}}\text{b})$ correlations in high energy proton-proton collisions. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1	5.4	5
97	Determination of the branching fractions of $B^0 \rightarrow D^+ S^- K^+$ and $B^0 \rightarrow D^- S^+ K^+$ . <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1	5.4	5
96	First measurement of the rate $K^0_L \rightarrow \pi^0 \pi^0$ <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>1998</b> , 418, 411-418	4.2	5
95	Measurement of the $\pi^0 \rightarrow \pi^+ \pi^-$ decay asymmetry and branching fraction. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2004</b> , 584, 251-259	4.2	5
94	Measurement of the $K_L \rightarrow e^+ e^- \pi^+ \pi^-$ decay rate. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2005</b> , 615, 31-38	4.2	5
93	A new measurement of the branching ratio of $K_S \rightarrow \pi^0 \pi^0$ <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2000</b> , 493, 29-35	4.2	5

92	Direct search for light gluinos. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>1999</b> , 446, 117-124	4.2	5
91	Updated measurement of decay-time-dependent CP asymmetries in $D^0 \rightarrow K+K$ and $D^0 \rightarrow \pi\pi$ decays. <i>Physical Review D</i> , <b>2020</b> , 101,	4.9	5
90	Measurement of the ratio of branching fractions ( $\frac{\text{Br}(\mathcal{B} \rightarrow \mathcal{B}_c^+ \mathcal{J}^+ \text{uppsi})}{\text{Br}(\mathcal{B} \rightarrow \mathcal{B}_c^+ \mathcal{J}^+ \text{uppi})}$ ). <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1	5.4	5
89	A search for $(\Xi_{cc}^{++}) \rightarrow D+pK$ decays. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	5
88	Observation of the decay $\Lambda_b \rightarrow \Lambda(2S)p$ . <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	5
87	Search for the Rare Decays $B_s^0 \rightarrow e^+ e^-$ and $B^0 \rightarrow e^+ e^-$ . <i>Physical Review Letters</i> , <b>2020</b> , 124, 211802	7.4	4
86	Measurement of $\chi_{cc}^{++}$ production in pp collisions at $\sqrt{s}=13$ TeV. <i>Chinese Physics C</i> , <b>2020</b> , 44, 022001	2.2	4
85	Measurement of $\psi(2S)$ production cross-sections in proton-proton collisions at $\sqrt{s}=7$ and $13 \text{ TeV}$ . <i>European Physical Journal C</i> , <b>2020</b> , 80,	4.2	4
84	Measurement of CP asymmetry in $B^0 \rightarrow D^+ K^-$ decays. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	4
83	Dalitz plot analysis of the $D^+ \rightarrow K^0 K^+$ decay. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	4
82	Limits on neutral Higgs boson production in the forward region in pp collisions at ( $\sqrt{s}=7$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1	5.4	4
81	New algorithms for identifying the flavour of [Formula: see text] mesons using pions and protons. <i>European Physical Journal C</i> , <b>2017</b> , 77, 238	4.2	4
80	Evidence for the two-body charmless baryonic decay ( $\mathcal{B}^+ \rightarrow \overline{\Lambda}^0$ ). <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1	5.4	4
79	Measurement of CP observables in $B^0 \rightarrow DK^0$ decays using two- and four-body D final states. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1	5.4	4
78	First observation and measurement of the branching fraction for the decay $B^0 \rightarrow D^{*+} K^-$ . <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1	5.4	4
77	The SYNC Chip in the Electronics Architecture of the LHCb Muon Detector. <i>IEEE Transactions on Nuclear Science</i> , <b>2010</b> , 57, 2790-2797	1.7	4
76	DIALOG: an ASIC for timing of the LHCb muon detector. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2004</b> , 518, 486-490 <sup>1.2</sup>		4
75	Measurement of the quadratic slope parameter in the $K_L \rightarrow 3\pi$ decay Dalitz plot. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2001</b> , 515, 261-268	4.2	4



74	A VLSI chip set for digital radiology with energy selection. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>1999</b> , 422, 357-362	1.2	4
73	Measurement of the $B_c$ meson production fraction and asymmetry in 7 and 13 TeV pp collisions. <i>Physical Review D</i> , <b>2019</b> , 100,	4.9	4
72	Measurement of the time-integrated CP asymmetry in $D^0 \rightarrow K^0 S K^0 S$ decays. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	4
71	Measurement of forward top pair production in the dilepton channel in pp collisions at ( $\sqrt{s}=13$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	4
70	Measurement of $D^0$ production asymmetry in pp collisions at ( $\sqrt{s}=7$ ) and 8 TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	4
69	First observation of the decay $B^0 \rightarrow K^0 S K^{*0}$ at LHCb. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1	5.4	3
68	Amplitude analysis of the ( $B^0 \rightarrow K^0 \overline{K}^0$ ) decays and measurement of the branching fraction of the ( $B^0 \rightarrow K^0 \overline{K}^0$ ) decay. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	3
67	Bose-Einstein correlations of same-sign charged pions in the forward region in pp collisions at ( $\sqrt{s}=7$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1	5.4	3
66	. <i>IEEE Transactions on Nuclear Science</i> , <b>1998</b> , 45, 68-74	1.7	3
65	The LHCb muon control system the DAQ domain <b>2007</b> ,		3
64	Characterization of a silicon pixel detector for imaging with low energy radiation. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2002</b> , 487, 170-174	1.2	3
63	Changes in the Annihilation delay time distribution of stopped antiprotons in helium gas, due to contaminants. <b>1994</b> , 107, 1325-1337		3
62	3D trenched-electrode pixel sensors: Design, technology and initial results. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2020</b> , 981, 164437	1.2	3
61	Search for heavy neutral leptons in ( $W^+ \rightarrow \mu^+ \mu^-$ , text {jet}) decays. <i>European Physical Journal C</i> , <b>2021</b> , 81, 1	4.2	3
60	Measurement of the electron reconstruction efficiency at LHCb. <i>Journal of Instrumentation</i> , <b>2019</b> , 14, P11023-P11023	1	3
59	Measurement of Charged Hadron Production in Z-Tagged Jets in Proton-Proton Collisions at $\sqrt{s}=8$ TeV. <i>Physical Review Letters</i> , <b>2019</b> , 123, 232001	7.4	3
58	Advances in 3D Sensor Technology by Using Stepper Lithography. <i>Frontiers in Physics</i> , <b>2021</b> , 8,	3.9	3
57	Search for long-lived particles decaying to ( $e^- \mu^-$ ) ( $\mu^- \mu^-$ ) ( $\nu$ ). <i>European Physical Journal C</i> , <b>2021</b> , 81, 1	4.2	3



56	Search for lepton-flavour-violating decays of Higgs-like bosons. <i>European Physical Journal C</i> , <b>2018</b> , 78, 1008	4.2	3
55	Measurement of the CP-violating phase $\phi_1$ from $B_s^0 \rightarrow J/\psi \psi \psi$ decays in 13 TeV pp collisions. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2019</b> , 797, 134789	4.2	2
54	Sensors, electronics and algorithms for tracking at the next generation of colliders. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2019</b> , 927, 306-312	1.2	2
53	Observation of the doubly Cabibbo-suppressed decay $B^+ \rightarrow p \pi^0$ . <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	2
52	Search for CP violation through an amplitude analysis of $D^0 \rightarrow K^+ K^- \pi^0$ decays. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	2
51	Measurement of the $(\Lambda_b^0) \rightarrow J/\psi$ angular distribution and the $(\Lambda_b^0)$ polarisation in pp collisions. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5.4	2
50	Measurement of CP observables in $B^\pm \rightarrow DK^\pm$ and $B^\pm \rightarrow D^\pm$ with $D \rightarrow (K_{\text{S}}^0 K^\pm \pi^\mp)$ decays. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5.4	2
49	Measurement of the ratio of branching fractions and difference in CP asymmetries of the decays $B^+ \rightarrow J/\psi$ and $B^+ \rightarrow J/\psi$ . <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1	5.4	2
48	Study of the $B^0 \rightarrow \psi(770) \psi^*(892) 0$ decay with an amplitude analysis of $B^0 \rightarrow (\psi \psi^*) K^0$ decays. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	2
47	Operation of silicon photomultipliers at liquid helium temperature <b>2014</b> ,		2
46	Operation of Multi-Pixel Photon Counters Down to Liquid Helium Temperatures. <i>IEEE Transactions on Nuclear Science</i> , <b>2014</b> , 61, 2672-2677	1.7	2
45	Operation of large-area APDs at cryogenic temperatures <b>2012</b> ,		2
44	Performance of the LHCb muon system with cosmic rays. <i>Journal of Instrumentation</i> , <b>2010</b> , 5, P10003-P10003		2
43	PHAROS: a spectrometer-on-a-chip for digital radiology systems with spectral detection. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2002</b> , 478, 367-371	1.2	2
42	KPIX: a pixel detector imaging chip. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2002</b> , 487, 175-180	1.2	2
41	Meson spectroscopy with S- and P-wave-dominant initial-state selection in $(\bar{p} p)$ annihilation <b>1994</b> , 107, 2279-2286		2
40	Observation of double charm production involving open charm in pp collisions at $(\sqrt{s} = 7 \text{ TeV})$ <b>2012</b> , 2012, 1		2
39	Search for the doubly heavy $(\Xi_{bc}^0)$ baryon via decays to $D^0 p K^0$ <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5.4	2

38	Measurement of the branching fraction of the $(\{B\}^0 \rightarrow \{D\}^+_{s} \{\pi\}^-)$ decay. <i>European Physical Journal C</i> , <b>2021</b> , 81, 1	4.2	2
37	Measurement of the front-end dead-time of the LHCb muon detector and evaluation of its contribution to the muon detection inefficiency. <i>Journal of Instrumentation</i> , <b>2016</b> , 11, P04010-P04010	1	2
36	Long-term operation of the multi-wire-proportional-chambers of the LHCb muon system. <i>Journal of Instrumentation</i> , <b>2019</b> , 14, P11031-P11031	1	2
35	Measurement of CP-Violating and Mixing-Induced Observables in $B_{s}^0 \rightarrow \pi^0 \pi^0$ Decays. <i>Physical Review Letters</i> , <b>2019</b> , 123, 081802	7.4	2
34	Measurement of $Z \rightarrow \mu^+ \mu^-$ production in proton-proton collisions at $(\sqrt{s}=8)$ TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	2
33	Measurement of CP violation in $B^0 \rightarrow D^0 \pi^0$ decays. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	2
32	A binary readout chip for silicon microstrip detector in proton imaging application. <i>Journal of Instrumentation</i> , <b>2017</b> , 12, C01030-C01030	1	1
31	Measurement of CP observables in the process $B^0 \rightarrow DK^0$ with two- and four-body D decays. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	1
30	<b>2016</b> ,		1
29	Measurement of the ratio of branching fractions of the decays $B^0 \rightarrow \pi^0 \pi^0$ and $B^0 \rightarrow J/\psi \pi^0$ . <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	1
28	Measurement of the branching fraction and (C!P) asymmetry in $(\{B\}^+ \rightarrow \{J/\psi\} \{\rho\}^+)$ decays. <i>European Physical Journal C</i> , <b>2019</b> , 79, 1	4.2	1
27	Search for the $B^0_s \rightarrow \mu^+ \mu^-$ decay. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1	5.4	1
26	. <i>IEEE Transactions on Nuclear Science</i> , <b>2017</b> , 1-1	1.7	1
25	Instruments and procedures for time calibration of the LHCb muon detector. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2008</b> , 589, 404-414	1.2	1
24	A high performance single chip processing unit for parallel processing and data acquisition systems. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>1993</b> , 324, 543-550	1.2	1
23	Observation of the semileptonic decay $\{B\}^+ \rightarrow \overline{p} \{\mu\}^+ \{\nu_{\mu}\}$ . <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020,	5.4	1
22	Measurement of $J/\psi$ production cross-sections in pp collisions at $(\sqrt{s}) = 5$ TeV. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1	5.4	1
21	Precision measurement of the $(\{B\}_c^+)$ meson mass. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5.4	1

20	Search for the rare decay $B^0 \rightarrow J/\psi^* \pi^0$ . <i>Chinese Physics C</i> , <b>2021</b> , 45, 043001	2.2	1
19	Measurement of the CP asymmetry in $B^0 \rightarrow D^+ D^-$ and $B^0 \rightarrow D^0 D^0$ decays. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	1
18	Accurate modelling of 3D-trench silicon sensor with enhanced timing performance and comparison with test beam measurements. <i>Journal of Instrumentation</i> , <b>2021</b> , 16, P09028	1	1
17	Measurement of CP violation in $B^0 \rightarrow D^+ D^-$ decays. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5.4	0
16	First measurement of the (CP)-violating phase in $(\{B^0\} \rightarrow \{J/\psi\} (e^+ e^-))(\phi)$ decays. <i>European Physical Journal C</i> , <b>2021</b> , 81, 1	4.2	0
15	Measurement of CP violation in the $(\{B^0\} \rightarrow \phi \phi)$ decay and search for the $B^0 \rightarrow \pi^0 \pi^0$ decay. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	0
14	The nSYNC ASIC for the new readout electronics of the LHCb Muon Detector Upgrade. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2019</b> , 936, 378-379	1.2	0
13	Simulation of 3D-Silicon sensors for the TIMESPOT project. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2019</b> , 936, 701-702	1.2	0
12	Observation of the decay $(\overline{B}^0 \rightarrow \chi_{c2} K^+ K^-)$ in the $\psi$ mass region. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	0
11	Search for the doubly charmed baryon $\Xi_{cc}$ . <i>Science China: Physics, Mechanics and Astronomy</i> , <b>2021</b> , 64, 1	3.6	0
10	Searches for rare $B^0 \rightarrow \mu^+ \mu^-$ and $B^0$ decays into four muons. <i>Journal of High Energy Physics</i> , <b>2022</b> , 2022, 1	5.4	0
9	X-ray detection by direct modulation of losses in a laser cavity. <i>Applied Physics Letters</i> , <b>2020</b> , 117, 234103	5.4	0
8	Auger Recombination of Biexcitons and Charged Excitons in CdSe/CdS core/shell Nanocrystals. <i>Materials Research Society Symposia Proceedings</i> , <b>2012</b> , 1409, 13		
7	Comprehensive measurements of GaAs pixel detectors capacitance. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2002</b> , 478, 426-430	1.2	
6	Fabrication process validation for a double-sided silicon pixel detector. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2003</b> , 509, 92-95	1.2	
5	. <i>IEEE Transactions on Nuclear Science</i> , <b>1994</b> , 41, 1710-1713	1.7	
4	First results from OBELIX on reactions with detected neutral pions in the final state <b>1994</b> , 107, 2287-2303		
3	On the order of the deconfining phase transition in SU(3) LGT. <i>Nuclear Physics, Section B, Proceedings Supplements</i> , <b>1989</b> , 9, 315-319		

2	Timing optimization for 3D silicon sensors. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2020</b> , 958, 162491	1.2
1	A Method Based on Muon System to Monitor LHCb Luminosity. <i>Symmetry</i> , <b>2022</b> , 14, 860	2.7