

# Patrick Koppenburg

## List of Publications by Year in descending order

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Version: 2024-02-01

61  
papers

5,032  
citations

147566

31  
h-index

128067

60  
g-index

61  
all docs

61  
docs citations

61  
times ranked

6771  
citing authors

#	ARTICLE	IF	CITATIONS
1	Search for massive long-lived particles decaying semileptonically at $\sqrt{s}=13, \text{hbox {TeV}}$ . European Physical Journal C, 2022, 82, .	1.4	2
2	Study of $\text{B}_s^0 \rightarrow \text{B}^+ \text{K}^- \text{K}^+ \text{K}^0$ decays. Journal of High Energy Physics, 2021, 2021, 1.	1.6	9
3	Search for heavy neutral leptons in $W^+ \rightarrow \mu^+ \mu^{\pm} + \text{jet}$ decays. European Physical Journal C, 2021, 81, 1.	1.4	15
4	Measurement of the branching fraction of the $\text{B}^0 \rightarrow \text{D}^+ \text{S}^- \text{pi}^+$ decay. European Physical Journal C, 2021, 81, 1.	1.4	6
5	First measurement of the CP-violating phase in $\text{B}^0 \rightarrow \text{J}/\psi (\text{J}/\psi) \text{ETQq1 1 0.784314,rgBT /Oyerlock 10}$	1.4	2
6	Search for CP violation in $\text{X}^+ \rightarrow \text{p} \text{K}^- \text{pi}^+$ decays using model-independent techniques. European Physical Journal C, 2020, 80, 1.	1.4	14
7	Measurement of the branching fraction and CP asymmetry in $\text{B}^+ \rightarrow \text{J}/\psi \text{h}^+$ decays. European Physical Journal C, 2019, 79, 1.	1.4	3
8	Design and performance of the LHCb trigger and full real-time reconstruction in Run 2 of the LHC. Journal of Instrumentation, 2019, 14, P04013-P04013.	0.5	47
9	Updated measurement of time-dependent CP-violating observables in $\text{B}^0 \rightarrow \text{J}/\psi \text{K}^+ \text{K}^-$ decays. European Physical Journal C, 2019, 79, 1.	1.4	20
10	Measurements of CP asymmetries in charmless four-body $\text{Lambda}^0 \rightarrow \text{B}^0 \text{B}^0$ and $\text{X}^0 \rightarrow \text{B}^0 \text{B}^0$ decays. European Physical Journal C, 2019, 79, 1.	1.4	11
11	Search for the rare decay $\text{B}^+ \rightarrow \mu^+ \mu^- \mu^+ \nu_{\mu}$ . European Physical Journal C, 2019, 79, 1.	1.4	11
12	Radiation Damage Effects and Operation of the LHCb Vertex Locator. IEEE Transactions on Nuclear Science, 2018, 65, 1127-1132.	1.2	1
13	Observation of the decay $\overline{\text{B}}_s^0 \rightarrow \chi_{c2} \text{K}^+ \text{K}^-$ in the $\bar{\Lambda}$ mass region. Journal of High Energy Physics, 2018, 2018, 1.	1.6	1
14	Studies of the resonance structure in $D^0 \rightarrow \text{K}^+ \text{pi}^- \text{pi}^+ \text{pi}^- \text{pi}^+ \text{pi}^-$ decays. European Physical Journal C, 2018, 78, 443.	1.4	28
15	Measurement of the phase difference between short- and long-distance amplitudes in the $\text{B}^+ \rightarrow \text{K}^+ \mu^+ \mu^- \text{B}^+ \text{K}^+ \text{K}^+ \text{K}^-$ decay. European Physical Journal C, 2017, 77, 161.	1.4	51
16	Search for massive long-lived particles decaying semileptonically in the LHCb detector. European Physical Journal C, 2017, 77, 224.	1.4	54
17	Improved limit on the branching fraction of the rare decay $\text{K}^0 \rightarrow \mu^+ \mu^- \text{K}^0 \text{K}^+ \text{K}^-$ . European Physical Journal C, 2017, 77, 678.	1.4	17
18	The CKM Parameters. Annual Review of Nuclear and Particle Science, 2017, 67, 97-127.	3.5	24

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19	New algorithms for identifying the flavour of $B^0$ mesons using pions and protons. European Physical Journal C, 2017, 77, 238.	1.4	11
20	Updated search for long-lived particles decaying to jet pairs. European Physical Journal C, 2017, 77, 812.	1.4	41
21	Search for Higgs-like bosons decaying into long-lived exotic particles. European Physical Journal C, 2016, 76, 664.	1.4	26
22	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
23	Search for long-lived particles decaying to jet pairs. European Physical Journal C, 2015, 75, 152.	1.4	44
24	Searches for $\Lambda_b^0$ and $\Xi_b^0$ decays to $K_S^0 \pi^+$ and $K_S^0 K^+$ final states with first observation of the $\Lambda_b^0 \rightarrow K_S^0 \pi^+$ decay. Journal of High Energy Physics, 2014, 2014, 1.	1.6	25
25	Observation of the $b \rightarrow c \ell \bar{\nu}_\ell$ decay. Journal of High Energy Physics, 2014, 2014, 1.	1.6	35
26	Measurement of $\psi(2S)$ $\Upsilon(2S)$ polarisation in $pp$ collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2014, 74, 2872.	1.4	53
27	Differential branching fraction and angular analysis of the decay $B_s^0 \rightarrow \bar{D}^{*1/2} + D^{*1/2}$ . Journal of High Energy Physics, 2013, 2013, 1.	1.6	103
28	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
29	Measurements of the branching fractions of $B^+ \rightarrow p \bar{K}^+$ decays. European Physical Journal C, 2013, 73, 2462.	1.4	24
30	Measurement of the relative rate of prompt $\bar{c}^0$ , $\bar{c}^1$ and $\bar{c}^2$ production at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2013, 2013, 1.	1.6	36
31	Differential branching fraction and angular analysis of the decay $B^0 \rightarrow \bar{K}^{*0} + D^{*0}$ . Journal of High Energy Physics, 2013, 2013, 1.	1.6	111
32	Implications of LHCb measurements and future prospects. European Physical Journal C, 2013, 73, 1.	1.4	137
33	Measurement of $J/\psi$ polarization in $pp$ collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2013, 73, 2631.	1.4	117
34	First observation of the decay $B_s^0 \rightarrow \bar{K}^{*0} \phi$ . Journal of High Energy Physics, 2013, 2013, 1.	1.6	9
35	Search for the rare decay $K_S^0 \rightarrow \mu^+ \mu^-$ . Journal of High Energy Physics, 2013, 2013, 1.	1.6	13
36	A study of the Z production cross-section in $pp$ collisions at $\sqrt{s} = 7$ TeV using tau final states. Journal of High Energy Physics, 2013, 2013, 1.	1.6	14

#	ARTICLE	IF	CITATIONS
37	The LHCb trigger and its performance in 2011. Journal of Instrumentation, 2013, 8, P04022-P04022.	0.5	334
38	Probing New Physics via the $B_s \rightarrow B^0 \hat{\tau}^+ \mu^-$ decay. Journal of High Energy Physics, 2012, 109, 041801.	2.9	212
39	Branching ratio measurements of $B \rightarrow B^0 s$ decays. Physical Review D, 2012, 86, .	1.6	118
40	Observation of double charm production involving open charm in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	1.6	103
41	Measurement of the isospin asymmetry in $B \rightarrow B^0 K^{*0} \hat{\tau}^+ \mu^-$ decays. Journal of High Energy Physics, 2012, 2012, 165		
42	First observation of the decay $B \rightarrow B^0 \hat{\tau}^+ \mu^- + \hat{\tau}^+ \mu^-$ . Journal of High Energy Physics, 2012, 2012, 1.	1.6	36
43	Measurement of $\hat{\tau}^+(2S)$ meson production in pp collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2012, 72, 2100.	1.4	83
44	Measurement of relative branching fractions of B decays to $\hat{\tau}^+(2S)$ and $J/\psi$ mesons. European Physical Journal C, 2012, 72, 2118.	1.4	29
45	Measurement of mixing and CP violation parameters in two-body charm decays. Journal of High Energy Physics, 2012, 2012, 1.	1.6	26
46	Inclusive W and Z production in the forward region at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	1.6	71
47	Observation of $X(3872)$ production in pp collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2012, 72, 1.	1.4	153
48	Opposite-side flavour tagging of B mesons at the LHCb experiment. European Physical Journal C, 2012, 72, 2022.	1.4	58
49	Measurement of $\hat{\tau}^+$ production in pp collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2012, 72, 2025.	1.4	106
50	Measurement of $J/\psi$ production in pp collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2011, 71, 1.	1.4	238
51	Measurement of $V_0$ production ratios in pp collisions at $\sqrt{s} = 0.9$ and 7 TeV. Journal of High Energy Physics, 2011, 2011, 1.	1.6	18
52	First observation of $B \rightarrow B^0 \hat{\tau}^+ \mu^-$ decay. Journal of High Energy Physics, 2011, 698, 115-122.		
53	Determination of $B \rightarrow B^0 \hat{\tau}^+ \mu^-$ decay. Journal of High Energy Physics, 2011, 699, 115-122.	1.5	60
54	Collisions and Measurement of the $B \rightarrow B^0 \hat{\tau}^+ \mu^-$ decay. Physical Review Letters, 2011, 107, 21	2.9	28

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55	Extracting $\hat{\Gamma}^3$ and penguin topologies through CP violation in $B_{s^0} \rightarrow \psi K_{\text{S}}$ . European Physical Journal C, 2010, 70, 1025-1035.	1.4	31
56	B, D and K decays. Advances in the Physics of Particles and Nuclei, 2009, , 297-480.	0.1	0
57	B, D and K decays. European Physical Journal C, 2008, 57, 309-492.	1.4	146
58	Software for the LHCb experiment. IEEE Transactions on Nuclear Science, 2006, 53, 1323-1328.	1.2	17
59	Inclusive Measurement of the Photon Energy Spectrum in $B^0 \rightarrow \pi^0 \pi^0$ Decays. Physical Review Letters, 2004, 93, 061803.	2.9	200
60	Measurement of Time-Dependent CP-Violating Asymmetries in $B^0 \rightarrow \pi^+ \pi^- K_S^0, K^+ K^- K_S^0$ , and $B^0 \rightarrow \pi^0 \pi^0 K_S^0$ Decays. Physical Review Letters, 2003, 91, 261602.	2.9	82
61	Observation of a Narrow Charmoniumlike State in Exclusive $B^0 \rightarrow \pi^+ \pi^- J/\psi$ Decays. Physical Review Letters, 2003, 91, 262001.	2.9	1,526