

# Hamish Gordon

## List of Publications by Citations

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

101  
papers

4,580  
citations

36  
h-index

66  
g-index

134  
ext. papers

5,389  
ext. citations

7.7  
avg, IF

3.94  
L-index

#	Paper	IF	Citations
101	The role of low-volatility organic compounds in initial particle growth in the atmosphere. <i>Nature</i> , <b>2016</b> , 533, 527-31	50.4	388
100	Ion-induced nucleation of pure biogenic particles. <i>Nature</i> , <b>2016</b> , 533, 521-6	50.4	377
99	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
98	Global atmospheric particle formation from CERN CLOUD measurements. <i>Science</i> , <b>2016</b> , 354, 1119-1124	33.3	207
97	Prompt charm production in pp collisions at $\sqrt{s}=7$ TeV. <i>Nuclear Physics B</i> , <b>2013</b> , 871, 1-20	2.8	163
96	Evidence for CP violation in time-integrated $D^0 \rightarrow h^+ h^-$ decay rates. <i>Physical Review Letters</i> , <b>2012</b> , 108, 111602	7.4	150
95	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
94	Causes and importance of new particle formation in the present-day and preindustrial atmospheres. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2017</b> , 122, 8739-8760	4.4	119
93	Implications of LHCb measurements and future prospects. <i>European Physical Journal C</i> , <b>2013</b> , 73, 1	4.2	116
92	Multicomponent new particle formation from sulfuric acid, ammonia, and biogenic vapors. <i>Science Advances</i> , <b>2018</b> , 4, eaau5363	14.3	105
91	Differential branching fraction and angular analysis of the decay $B^0 \rightarrow K^* \mu^+ \mu^-$ . <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1	5.4	99
90	New Particle Formation in the Atmosphere: From Molecular Clusters to Global Climate. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2019</b> , 124, 7098-7146	4.4	95
89	Measurement of $\Lambda$ polarization in collisions at $\sqrt{s}=7$ TeV. <i>European Physical Journal C</i> , <b>2013</b> , 73, 2631	4.2	87
88	Differential branching fraction and angular analysis of the decay $B_s^0 \rightarrow K^* \mu^+ \mu^-$ . <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1	5.4	86
87	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
86	Measurement of $\Lambda$ production in collisions at $\sqrt{s}=7$ TeV. <i>European Physical Journal C</i> , <b>2012</b> , 72, 2025	4.2	83
85	Reduced anthropogenic aerosol radiative forcing caused by biogenic new particle formation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2016</b> , 113, 12053-12058	11.5	79

84	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
83	Rapid growth of organic aerosol nanoparticles over a wide tropospheric temperature range. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2018</b> , 115, 9122-9127	11.5	73
82	Measurement of CP violation in the phase space of $B^0 \rightarrow K^0_S \pi^0$ and $B^0 \rightarrow K^0_S K^+ K^-$ decays. <i>Physical Review Letters</i> , <b>2013</b> , 111, 101801	7.4	70
81	Study of D meson decays to $D^+ \pi^0 \pi^0$ and $D^{*+} \pi^0 \pi^0$ final states in pp collisions. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1	5.4	69
80	Aerosols in the Pre-industrial Atmosphere. <i>Current Climate Change Reports</i> , <b>2017</b> , 3, 1-15	9	65
79	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
78	Measurement of $\chi$ meson production in collisions at [Formula: see text]. <i>European Physical Journal C</i> , <b>2012</b> , 72, 2100	4.2	63
77	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
76	Measurement of the isospin asymmetry in $B \rightarrow K^* \pi \pi$ decays. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1	5.4	59
75	Production of $J/\psi$ and ( $\Upsilon$ ) mesons in pp collisions at ( $\sqrt{s}=8$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1	5.4	58
74	Experimental particle formation rates spanning tropospheric sulfuric acid and ammonia abundances, ion production rates, and temperatures. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2016</b> , 121, 12,377	4.4	54
73	Heterogeneous ice nucleation of viscous secondary organic aerosol produced from ozonolysis of $\alpha$ -pinene. <i>Atmospheric Chemistry and Physics</i> , <b>2016</b> , 16, 6495-6509	6.8	51
72	Observation of viscosity transition in $\alpha$ -pinene secondary organic aerosol. <i>Atmospheric Chemistry and Physics</i> , <b>2016</b> , 16, 4423-4438	6.8	47
71	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
70	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
69	First observation of the decay $B_s^{*2}(5840)(0) \rightarrow B^* K^-$ and studies of excited $B_s(0)$ mesons. <i>Physical Review Letters</i> , <b>2013</b> , 110, 151803	7.4	42
68	Large simulated radiative effects of smoke in the south-east Atlantic. <i>Atmospheric Chemistry and Physics</i> , <b>2018</b> , 18, 15261-15289	6.8	42
67	Charged particle tracking with the Timepix ASIC. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2012</b> , 661, 31-49	1.2	41

66	Opposite-side flavour tagging of mesons at the LHCb experiment. <i>European Physical Journal C</i> , <b>2012</b> , 72, 2022	4.2	39
65	First observation of the decay ( $B_c^+ \rightarrow J/\psi K^+$ ). <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1	5.4	36
64	Aqueous phase oxidation of sulphur dioxide by ozone in cloud droplets. <i>Atmospheric Chemistry and Physics</i> , <b>2016</b> , 16, 1693-1712	6.8	35
63	First observation of the decay $B^+ \rightarrow \mu^+ \nu_\mu$ . <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1	5.4	35
62	The role of ions in new particle formation in the CLOUD chamber. <i>Atmospheric Chemistry and Physics</i> , <b>2017</b> , 17, 15181-15197	6.8	32
61	Precision measurement of the $B(0)$ baryon lifetime. <i>Physical Review Letters</i> , <b>2013</b> , 111, 102003	7.4	32
60	Molecular understanding of new-particle formation from $\alpha$ -pinene between 0 and +25 °C. <i>Atmospheric Chemistry and Physics</i> , <b>2020</b> , 20, 9183-9207	6.8	32
59	Measurement of the relative rate of prompt $\mu^0$ , $\mu^1$ and $\mu^2$ production at ( $\sqrt{s}=7$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1	5.4	31
58	Measurement of the $\mu$ . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2013</b> , 718, 902-909	4.2	31
57	Size-dependent influence of NO on the growth rates of organic aerosol particles. <i>Science Advances</i> , <b>2020</b> , 6, eaay4945	14.3	28
56	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
55	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
54	Measurement of charged particle multiplicities in pp collisions at ( $\sqrt{s} = 7$ TeV) in the forward region. <i>European Physical Journal C</i> , <b>2012</b> , 72, 1	4.2	24
53	Formation of Highly Oxygenated Organic Molecules from $\alpha$ -Pinene Ozonolysis: Chemical Characteristics, Mechanism, and Kinetic Model Development. <i>ACS Earth and Space Chemistry</i> , <b>2019</b> , 3, 873-883	3.2	23
52	Measurement of prompt hadron production ratios in pp collisions at ( $\sqrt{s} = 0.9$ and $7$ TeV). <i>European Physical Journal C</i> , <b>2012</b> , 72, 1	4.2	23
51	Measurement of the $B \rightarrow K^0 e^+ e^-$ branching fraction at low dilepton mass. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1	5.4	22
50	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
49	The CLOUD Aerosol Radiation Interaction and Forcing: Year 2017 (CLARIFY-2017) measurement campaign. <i>Atmospheric Chemistry and Physics</i> , <b>2021</b> , 21, 1049-1084	6.8	22

48	Enhanced growth rate of atmospheric particles from sulfuric acid. <i>Atmospheric Chemistry and Physics</i> , <b>2020</b> , 20, 7359-7372	6.8	21
47	Impact of El Niño/Southern Oscillation on the interannual variability of methane and tropospheric ozone. <i>Atmospheric Chemistry and Physics</i> , <b>2019</b> , 19, 8669-8686	6.8	20
46	High concentration of ultrafine particles in the Amazon free troposphere produced by organic new particle formation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2020</b> , 117, 25344-25351	11.5	20
45	The hemispheric contrast in cloud microphysical properties constrains aerosol forcing. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2020</b> , 117, 18998-19006	11.5	20
44	Measurements of the branching fractions of [Formula: see text] decays. <i>European Physical Journal C</i> , <b>2013</b> , 73, 2462	4.2	19
43	Model-independent search for CP violation in . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2013</b> , 726, 623-633	4.2	19
42	Measurement of the $B \rightarrow \mu \mu$ 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
41	Measurement of relative branching fractions of decays to $(2)$ and $/$ mesons. <i>European Physical Journal C</i> , <b>2012</b> , 72, 2118	4.2	18
40	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
39	Measurement of the fraction of $[1S]$ 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
38	Search for CP violation in $D \rightarrow K \pi$ decays. <i>Physical Review D</i> , <b>2011</b> , 84,	4.9	17
37	Modeling the smoky troposphere of the southeast Atlantic: a comparison to ORACLES airborne observations from September of 2016. <i>Atmospheric Chemistry and Physics</i> , <b>2020</b> , 20, 11491-11526	6.8	16
36	Molecular understanding of the suppression of new-particle formation by isoprene. <i>Atmospheric Chemistry and Physics</i> , <b>2020</b> , 20, 11809-11821	6.8	16
35	Search for CP violation in the decay . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2014</b> , 728, 585-595	4.2	15
34	Search for CP violation in $D \rightarrow \pi \pi$ and $(D_s^+ \rightarrow K_S^0 \pi^+)$ decays. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1	5.4	14
33	First measurement of the CP-violating phase in $B_s(0) \rightarrow \pi \pi$ decays. <i>Physical Review Letters</i> , <b>2013</b> , 110, 241802	5.2	14
32	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
31	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

30	Untangling causality in midlatitude aerosol-cloud adjustments. <i>Atmospheric Chemistry and Physics</i> , <b>2020</b> , 20, 4085-4103	6.8	12
29	Phase transition observations and discrimination of small cloud particles by light polarization in expansion chamber experiments. <i>Atmospheric Chemistry and Physics</i> , <b>2016</b> , 16, 3651-3664	6.8	11
28	Search for the rare decay ( $K_{\text{S}}^0 \rightarrow \mu^+ \mu^-$ ). <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1	5.4	10
27	CRI-HOM: A novel chemical mechanism for simulating highly oxygenated organic molecules (HOMs) in global chemistry-aerosol-climate models. <i>Atmospheric Chemistry and Physics</i> , <b>2020</b> , 20, 10889-10910	6.8	10
26	Large contribution to secondary organic aerosol from isoprene cloud chemistry. <i>Science Advances</i> , <b>2021</b> , 7,	14.3	10
25	Branching fraction and CP asymmetry of the decays $B^+ \rightarrow K_S^0 \pi^+$ and $B^+ \rightarrow K_S^0 K^+$ . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2013</b> , 726, 646-655	4.2	9
24	Search for CP violation in $D \rightarrow \pi K^0$ and $D \rightarrow \pi K^+$ decays. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1	5.4	8
23	The driving factors of new particle formation and growth in the polluted boundary layer. <i>Atmospheric Chemistry and Physics</i> , <b>2021</b> , 21, 14275-14291	6.8	8
22	First observation of the decay ( $B_s^0 \rightarrow \pi^0 \pi^0$ ). <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1	5.4	7
21	Measurement of CP observables in $B^0 \rightarrow \pi^0 \pi^0$ with $D \rightarrow K^+ K^-$ . <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1	5.4	6
20	Searches for ( $B_{(s)}^0 \rightarrow \{J/\psi, \psi(2S)\} \pi^0$ ) and $B^+ \rightarrow J/\psi \pi^+$ decays. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1	5.4	6
19	Modeling the smoky troposphere of the southeast Atlantic: a comparison to ORACLES airborne observations from September of 2016		5
18	Cloud adjustments dominate the overall negative aerosol radiative effects of biomass burning aerosols in UKESM1 climate model simulations over the south-eastern Atlantic. <i>Atmospheric Chemistry and Physics</i> , <b>2021</b> , 21, 17-33	6.8	5
17	Synergistic HNO-HSO-NH upper tropospheric particle formation.. <i>Nature</i> , <b>2022</b> , 605, 483-489	50.4	5
16	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
15	Overview: The CLoud-Aerosol-Radiation Interaction and Forcing: Year-2017 (CLARIFY-2017) measurement campaign		4
14	Observation of viscosity transition in $\alpha$ -pinene secondary organic aerosol		4
13	Modeled and observed properties related to the direct aerosol radiative effect of biomass burning aerosol over the southeastern Atlantic. <i>Atmospheric Chemistry and Physics</i> , <b>2022</b> , 22, 1-46	6.8	3

12	The driving factors of new particle formation and growth in the polluted boundary layer		3
11	Development of aerosol activation in the double-moment Unified Model and evaluation with CLARIFY measurements. <i>Atmospheric Chemistry and Physics</i> , <b>2020</b> , 20, 10997-11024	6.8	2
10	Heterogeneous ice nucleation of viscous secondary organic aerosol produced from ozonolysis of $\beta$ -pinene		2
9	Observation of double charm production involving open charm in pp collisions at ( $\sqrt{s} = 7\text{ TeV}$ ) <b>2012</b> , 2012, 1		2
8	Impact of Urban Pollution on Organic-Mediated New-Particle Formation and Particle Number Concentration in the Amazon Rainforest. <i>Environmental Science &amp; Technology</i> , <b>2021</b> , 55, 4357-4367 <sup>10.3</sup>		2
7	Constraints on global aerosol number concentration, $\text{SO}_2$ and condensation sink in UKESM1 using ATom measurements. <i>Atmospheric Chemistry and Physics</i> , <b>2021</b> , 21, 4979-5014	6.8	2
6	Molecular understanding of new-particle formation from alpha-pinene between $0^\circ\text{C}$ and $25^\circ\text{C}$ <b>2020</b> ,		1
5	The significant role of biomass burning aerosols in clouds and radiation in the South-eastern Atlantic Ocean <b>2020</b> ,		1
4	Untangling causality in midlatitude aerosol-cloud adjustments <b>2019</b> ,		1
3	Discrimination of water, ice and aerosols by light polarisation in the CLOUD experiment		1
2	Molecular understanding of the suppression of new-particle formation by isoprene <b>2020</b> ,		1
1	Enhanced growth rate of atmospheric particles from sulfuric acid <b>2019</b> ,		1