Hamish Gordon

List of Publications by Year
in descending order

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92	6,379	53660 45	66788 78
papers	citations	h-index	g-index

134	134	134	8619
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The role of low-volatility organic compounds in initial particle growth in the atmosphere. Nature, 2016, 533, 527-531.	13.7	540
2	Ion-induced nucleation of pure biogenic particles. Nature, 2016, 533, 521-526.	13.7	528
3	Global atmospheric particle formation from CERN CLOUD measurements. Science, 2016, 354, 1119-1124.	6.0	289
4	Measurement of J/Ï¨ production in pp collisions at $sqrt{s}=7$ TeV. European Physical Journal C, 2011, 71, 1.	1.4	238
5	Prompt charm production in pp collisions at <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll"><mml:msqrt><mml:mi>s</mml:mi></mml:msqrt><mml:mo>=</mml:mo><mml:mn>7</mml:mn><mml:mtext>Â</mml:mtext> Nuclear Physics B, 2013, 871, 1-20.	0.9	228
6	Causes and importance of new particle formation in the presentâ€day and preindustrial atmospheres. Journal of Geophysical Research D: Atmospheres, 2017, 122, 8739-8760.	1.2	198
7	New Particle Formation in the Atmosphere: From Molecular Clusters to Global Climate. Journal of Geophysical Research D: Atmospheres, 2019, 124, 7098-7146.	1.2	185
8	Evidence for<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>C</mml:mi><mml:mi>P</mml:mi></mml:math>Violation in Time-Integrated<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mi>D</mml:mi><mml:mn>0</mml:mn></mml:msup><mml:mo>â†’</mml:mo><mml:msup><mml:m Rates. Physical Review Letters, 2012, 108, 111602.	2.9	181
9	Multicomponent new particle formation from sulfuric acid, ammonia, and biogenic vapors. Science Advances, 2018, 4, eaau5363.	4.7	164
10	Observation of X(3872) production in pp collisions at $sqrt{s}=7mbox{~TeV}$. European Physical Journal C, 2012, 72, 1.	1.4	153
11	Implications of LHCb measurements and future prospects. European Physical Journal C, 2013, 73, 1.	1.4	137
12	Rapid growth of organic aerosol nanoparticles over a wide tropospheric temperature range. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 9122-9127.	3.3	118
13	Measurement of J/Ïˆ polarization in pp collisions at $sqrt{s}=7 mathrm{TeV}$. European Physical Journal C, 2013, 73, 2631.	1.4	117
14	Differential branching fraction and angular analysis of the decay B 0 â†’ K âˆ—0 Î¼ + Î¼ âˆ’. Journal of High Energy Physics, 2013, 2013, 1.	1.6	111
15	Reduced anthropogenic aerosol radiative forcing caused by biogenic new particle formation. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 12053-12058.	3.3	107
16	Measurement of Ï’ production in pp collisions at $sqrt{oldsymbol{s}}=oldsymbol{7}~mathrm{TeV}$. European Physical Journal C, 2012, 72, 2025.	1.4	106
17	Observation of double charm production involving open charm in pp collisions at $ sqrt {s} = {7};{ext{TeV}} $. Journal of High Energy Physics, 2012, 2012, 1.	1.6	103
18	Differential branching fraction and angular analysis of the decay $ B_s^0 $ â†’ Ï•Î¼ + Î¼ âˆ’. Journal of High Energy Physics, 2013, 2013, 1.	1.6	103

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19	Measurement of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>C</mml:mi><mml:mi>P</mml:mi></mml:math>Violation in the Phase Space of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mi>B</mml:mi><mml:mo>Â±</mml:mo></mml:msup><mml:mo>â†'</mml:mo><mml:msup><mml:mi> xm. Physical Review Letters, 2013, 111, 101801.	2.9	101
20	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
21	Aerosols in the Pre-industrial Atmosphere. Current Climate Change Reports, 2017, 3, 1-15.	2.8	84
22	Measurement of Ï^(2S) meson production in pp collisions at $sqrt{s}=7 mbox{TeV}$. European Physical Journal C, 2012, 72, 2100.	1.4	83
23	Study of D J meson decays to D +Ï€â^', D 0Ï€+ and D â^—+Ï€â^' final states in pp collisions. Journal of High Energy Physics, 2013, 2013, 1.	1.6	82
24	Differential branching fraction and angular analysis of the B + â†' K + Î¼ + Î¼ â^' decay. Journal of High Energy Physics, 2013, 2013, 1.	1.6	72
25	Inclusive W and Z production in the forward region at $ sqrt {s} = 7,{ext{TeV}} $. Journal of High Energy Physics, 2012, 2012, 1.	1.6	71
26	Experimental particle formation rates spanning tropospheric sulfuric acid and ammonia abundances, ion production rates, and temperatures. Journal of Geophysical Research D: Atmospheres, 2016, 121, 12,377.	1.2	71
27	Heterogeneous ice nucleation of viscous secondary organic aerosol produced from ozonolysis of <i>Î±</i>-pinene. Atmospheric Chemistry and Physics, 2016, 16, 6495-6509.	1.9	71
28	Molecular understanding of new-particle formation from <i>Î±</i>-pinene between â^'50 and +25â€‰Â°C. Atmospheric Chemistry and Physics, 2020, 20, 9183-9207.	1.9	68
29	Measurement of the isospin asymmetry in Bâ€‰â†'â€‰K(*)Î¼+Î¼â^' decays. Journal of High Energy Physics, 2012, 2012, 165	1.6	65
30	Production of J/Ï^ and $ varUpsilon $ mesons in pp collisions at $ sqrt{s}=8 $ TeV. Journal of High Energy Physics, 2013, 2013, 1.	1.6	65
31	Large simulated radiative effects of smoke in the south-east Atlantic. Atmospheric Chemistry and Physics, 2018, 18, 15261-15289.	1.9	61
32	Size-dependent influence of NO _x on the growth rates of organic aerosol particles. Science Advances, 2020, 6, eaay4945.	4.7	61
33	Opposite-side flavour tagging of B mesons at the LHCb experiment. European Physical Journal C, 2012, 72, 2022.	1.4	58
34	Enhanced growth rate of atmospheric particles from sulfuric acid. Atmospheric Chemistry and Physics, 2020, 20, 7359-7372.	1.9	58
35	The CLoudâ€"Aerosolâ€"Radiation Interaction and Forcing: YearÂ2017 (CLARIFY-2017) measurement campaign. Atmospheric Chemistry and Physics, 2021, 21, 1049-1084.	1.9	57
36	Observation of viscosity transition in <i>Î±</i>-pinene secondary organic aerosol. Atmospheric Chemistry and Physics, 2016, 16, 4423-4438.	1.9	55

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37	Measurement of the cross-section for Z â†’ e+e- production in pp collisions at $sqrt{s}=7$ TeV. Journal of High Energy Physics, 2013, 2013, 1.	1.6	53
38	Formation of Highly Oxygenated Organic Molecules from Î±-Pinene Ozonolysis: Chemical Characteristics, Mechanism, and Kinetic Model Development. ACS Earth and Space Chemistry, 2019, 3, 873-883.	1.2	52
39	First Observation of the Decay<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msubsup><mml:mi>B</mml:mi><mml:mrow><mml:mi>s</mml:mi><mml:mn>2</mml:mn></mml:mrow><mml:mo mathvariant="bold" stretchy="false">(</mml:mo><mml:mn>5840</mml:mn><mml:msup><mml:mo) Tj ETQq1 1 0.784314 rgBT /Overlo mathvariant="bold">+</mml:mo></mml:mro. Physical Review Letters, 2013, 110, 151803.	2.9	51
40	The hemispheric contrast in cloud microphysical properties constrains aerosol forcing. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 18998-19006.	3.3	51
41	Charged particle tracking with the Timepix ASIC. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2012, 661, 31-49.	0.7	50
42	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
43	The role of ions in new particle formation in the CLOUD chamber. Atmospheric Chemistry and Physics, 2017, 17, 15181-15197.	1.9	50
44	High concentration of ultrafine particles in the Amazon free troposphere produced by organic new particle formation. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 25344-25351.	3.3	49
45	Molecular understanding of the suppression of new-particle formation by isoprene. Atmospheric Chemistry and Physics, 2020, 20, 11809-11821.	1.9	49
46	Aqueous phase oxidation of sulphur dioxide by ozone in cloud droplets. Atmospheric Chemistry and Physics, 2016, 16, 1693-1712.	1.9	47
47	First observation of the decay $ B_c^{+}o {J left/ {{psi {K^{+}}}} ight.} $. Journal of High Energy Physics, 2013, 2013, 1.	1.6	41
48	Measurement of the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll"><mml:msup><mml:mrow><mml:mi mathvariant="normal">D</mml:mi></mml:mrow><mml:mrow><mml:mo>Â±</mml:mo></mml:mrow></mml:msup></mml:math> production asymmetry in 7 TeV pp collisions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 718, 902-909.	1.6	38
49	The driving factors of new particle formation and growth in the polluted boundary layer. Atmospheric Chemistry and Physics, 2021, 21, 14275-14291.	1.9	38
50	First observation of the decay B + â†’ Ï€ + Î¼ + Î¼ â^'. Journal of High Energy Physics, 2012, 2012, 1.	1.6	36
51	Measurement of the relative rate of prompt Ï‡ c0, Ï‡ c1 and Ï‡ c2 production at $ sqrt{s}=7 $ TeV. Journal of High Energy Physics, 2013, 2013, 1.	1.6	36
52	Precision Measurement of the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msubsup><mml:mi>Î›</mml:mi><mml:mi>b</mml:mi><mml:mn>0</mml:mn></mml:msubsup></mml:math> Lifetime. Physical Review Letters, 2013, 111, 102003.	2.9	35
53	Addendum: Observation of double charm production involving open charm in pp collisions at $ sqrt{s} $ = 7 TeV. Journal of High Energy Physics, 2014, 2014, 1.	1.6	34
54	Impact of El NiÃ±oâ€“Southern Oscillation on the interannual variability of methane and tropospheric ozone. Atmospheric Chemistry and Physics, 2019, 19, 8669-8686.	1.9	33

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55	Modeling the smoky troposphere of the southeast Atlantic: a comparison to ORACLES airborne observations from September of 2016. Atmospheric Chemistry and Physics, 2020, 20, 11491-11526.	1.9	32
56	Measurement of charged particle multiplicities in pp collisions at $sqrt{s} =7~mbox{TeV}$ in the forward region. European Physical Journal C, 2012, 72, 1.	1.4	30
57	Measurement of J/Ĩ production in pp collisions at $sqrt{s}=2.76;mathrm{TeV}$. Journal of High Energy Physics, 2013, 2013, 1.	1.6	30
58	Measurement of relative branching fractions of B decays to Ï(2S) and J/Ĩ mesons. European Physical Journal C, 2012, 72, 2118.	1.4	29
59	Measurement of the B 0 â† K â—0 e + e â˜ branching fraction at low dilepton mass. Journal of High Energy Physics, 2013, 2013, 1.	1.6	28
60	Measurement of prompt hadron production ratios in pp collisions at $sqrt{s} = 0.9mbox{ and }7~mathrm{TeV}$. European Physical Journal C, 2012, 72, 1.	1.4	26
61	Measurement of mixing and CP violation parameters in two-body charm decays. Journal of High Energy Physics, 2012, 2012, 1.	1.6	26
62	Synergistic HNO3â€“H2SO4â€“NH3 upper tropospheric particle formation. Nature, 2022, 605, 483-489.	13.7	26
63	Measurement of the forward energy flow in pp collisions at $sqrt{s}=7 mbox{TeV}$. European Physical Journal C, 2013, 73, 2421.	1.4	25
64	Untangling causality in midlatitude aerosolâ€“cloud adjustments. Atmospheric Chemistry and Physics, 2020, 20, 4085-4103.	1.9	25
65	Measurements of the branching fractions of $B^{+} o p ar{p} K^{+}$ decays. European Physical Journal C, 2013, 73, 2462.	1.4	24
66	Large contribution to secondary organic aerosol from isoprene cloud chemistry. Science Advances, 2021, 7, .	4.7	24
67	Measurement of the B Â± production cross-section in pp collisions at $ sqrt {s} $ = 7 TeV. Journal of High Energy Physics, 2012, 2012, 1.	1.6	22
68	Model-independent search for CP violation in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll"><mml:msup><mml:mrow><mml:mi>D</mml:mi></mml:mrow><mml:mrow><mml:mn>0</mml:mn></mml:mrow></m Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 726, 623-633.	1.5	22
69	Modeled and observed properties related to the direct aerosol radiative effect of biomass burning aerosol over the southeastern Atlantic. Atmospheric Chemistry and Physics, 2022, 22, 1-46.	1.9	22
70	Search for<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>C</mml:mi><mml:mi>P</mml:mi></mml:math>violation in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mi>D</mml:mi><mml:mo>+</mml:mo></mml:msup><mml:mo>â†'</mml:mo><mml:msup><mml:m Physical Review D, 2013, 84, .	1.6	20
71	Measurement of the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>C</mml:mi><mml:mi>P</mml:mi></mml:math>-Violating Phase in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msubsup><mml:mi>B</mml:mi><mml:mi>s</mml:mi><mml:mn>0</mml:mn></mml:msubsup><mml:mo>â†'< Physical Review Letters, 2013, 110, 241802.	2.9	19
72	Search for CP violation in the decay <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll"><mml:msup><mml:mrow><mml:mi>D</mml:mi></mml:mrow><mml:mrow><mml:mo>+</mml:mo></mml:mrow></m Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2014, 728, 585-595.	1.5	19

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73	CRI-HOM: A novel chemical mechanism for simulating highly oxygenated organic molecules (HOMs) in global chemistryâ€“aerosolâ€“climate models. Atmospheric Chemistry and Physics, 2020, 20, 10889-10910.	1.9	19
74	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
75	Measurement of the fraction of Î¥ (1S) originating from Ï‡b(1P) decays in pp collisions at $ sqrt{s}=7,TeV $. Journal of High Energy Physics, 2012, 2012, 1.	1.6	18
76	Constraints on global aerosol number concentration, SO₂ and condensation sink in UKESM1 using ATomÂmeasurements. Atmospheric Chemistry and Physics, 2021, 21, 4979-5014.	1.9	16
77	Search for CP violation in D + â†' Ï•Ï€ + and $ D_s^{+}o K_S^0{pi^{+}} $ decays. Journal of High Energy Physics, 2013, 2013, 1.	1.6	14
78	A study of the Z production cross-section in pp collisions at $ sqrt{s}=7,mathrm{TeV} $ using tau final states. Journal of High Energy Physics, 2013, 2013, 1.	1.6	14
79	Search for the rare decay $ K_{mathrm{S}}^0o {mu^{+}}{mu^{-}} $. Journal of High Energy Physics, 2013, 2013, 1.	1.6	13
80	Search for CP violation in D Â±â€‰â†'â€‰K S 0 K Â± and D s Â± â€‰â†'â€‰K S 0 Ï€ Â± decays. Journal of High Energy Physics, 2014, 2014, 1.	1.6	13
81	Cloud adjustments dominate the overall negative aerosol radiative effects of biomass burning aerosols in UKESM1 climate model simulations over the south-eastern Atlantic. Atmospheric	1.9	13
82	Branching fraction and CP asymmetry of the decays <mml:math altimg="si1.gif" overflow="scroll" xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:sb="http://www.elsevier.com/xml/common/struct-bib/dtd" xmlns:ce="http:/. Physics Letters, Secti	1.5	12
83	Impact of Urban Pollution on Organic-Mediated New-Particle Formation and Particle Number Concentration in the Amazon Rainforest. Environmental Science & Technology, 2021, 55, 4357-4367.	4.6	12
84	Phase transition observations and discrimination of small cloud particles by light polarization in expansion chamber experiments. Atmospheric Chemistry and Physics, 2016, 16, 3651-3664.	1.9	11
85	First observation of the decay $ B_s^0o phi overline{K}{*^0} $. Journal of High Energy Physics, 2013, 2013, 1.	1.6	9
86	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
87	Searches for $ B_{(s)}^0 o {J left/ {{psi p}} ight.}overline{p} $ and B + â†' J/Ïˆ p $ overline{p} $ Ï€ + decays. Journal of High Energy Physics, 2013, 2013, 1.	1.6	7
88	Delhi Model with Chemistry and aerosol framework (<scp>DMâ€Chem</scp>) for highâ€resolution fog forecasting. Quarterly Journal of the Royal Meteorological Society, 2021, 147, 3957-3978.	1.0	7
89	Development of aerosol activation in the double-moment Unified Model and evaluation with CLARIFY measurements. Atmospheric Chemistry and Physics, 2020, 20, 10997-11024.	1.9	7
90	Measurement of CP observables in B 0 â†' DK â^—0 with D â†'K + K â^'. Journal of High Energy Physics, 2013, 2013, 1.	1.6	6

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91	Observation of double charm production involving open charm in pp collisions at (sqrt {s} = {7};{ext{TeV}}). , 2012, 2012, 1.		2
92	Studying the Seeds for Clouds at the CERN Research Labs. Frontiers for Young Minds, 0, 5, .	0.8	0