Anna E Jones

List of Publications by Year
in descending order

46 papers	3,429 citations	201385 27 h-index	223531 46 g-index
73 all docs	73 docs citations	73 times ranked	3280 citing authors

#	Article	IF	Citations
1	An overview of snow photochemistry: evidence, mechanisms and impacts. Atmospheric Chemistry and Physics, 2007, 7, 4329-4373.	1.9	554
2	Very Strong Atmospheric Methane Growth in the 4ÂYears 2014â€“2017: Implications for the Paris Agreement. Global Biogeochemical Cycles, 2019, 33, 318-342.	1.9	353
3	Boundary Layer Halogens in Coastal Antarctica. Science, 2007, 317, 348-351.	6.0	276
4	Halogen activation via interactions with environmental ice and snow in the polar lower troposphere and other regions. Atmospheric Chemistry and Physics, 2012, 12, 6237-6271.	1.9	209
5	Speciation and rate of photochemical NO and NO2production in Antarctic snow. Geophysical Research Letters, 2000, 27, 345-348.	1.5	202
6	Measurements of NOxemissions from the Antarctic snowpack. Geophysical Research Letters, 2001, 28, 1499-1502.	1.5	167
7	On the vertical distribution of boundary layer halogens over coastal Antarctica: implications for O₃, HO_x, NO_x and the Hg lifetime. Atmospheric Chemistry and Physics, 2008, 8, 887-900.	1.9	153
8	A review of surface ozone in the polar regions. Atmospheric Environment, 2007, 41, 5138-5161.	1.9	133
9	BrO, blizzards, and drivers of polar tropospheric ozone depletion events. Atmospheric Chemistry and Physics, 2009, 9, 4639-4652.	1.9	98
10	The interpretation of spikes and trends in concentration of nitrate in polar ice cores, based on evidence from snow and atmospheric measurements. Atmospheric Chemistry and Physics, 2008, 8, 5627-5634.	1.9	84
11	Oxidized nitrogen chemistry and speciation in the Antarctic troposphere. Journal of Geophysical Research, 1999, 104, 21355-21366.	3.3	80
12	What controls photochemical NO and NO2production from Antarctic snow? Laboratory investigation assessing the wavelength and temperature dependence. Journal of Geophysical Research, 2003, 108, .	3.3	76
13	Chemistry of the Antarctic Boundary Layer and the Interface with Snow: an overview of the CHABLIS campaign. Atmospheric Chemistry and Physics, 2008, 8, 3789-3803.	1.9	73
14	Observations of OH and HO₂ radicals in coastal Antarctica. Atmospheric Chemistry and Physics, 2007, 7, 4171-4185.	1.9	69
15	OH and halogen atom influence on the variability of non-methane hydrocarbons in the Antarctic Boundary Layer. Tellus, Series B: Chemical and Physical Meteorology, 2007, 59, 22-38.	0.8	69
16	Modelling photochemical NOXproduction and nitrate loss in the upper snowpack of Antarctica. Geophysical Research Letters, 2002, 29, 5-1-5-4.	1.5	67
17	First direct observation of sea salt aerosol production from blowing snow above sea ice. Atmospheric Chemistry and Physics, 2020, 20, 2549-2578.	1.9	61
18	A role for newly forming sea ice in springtime polar tropospheric ozone loss? Observational evidence from Halley station, Antarctica. Journal of Geophysical Research, 2006, 111, .	3.3	56

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19	Coupling of HO_x, NO_x and halogen chemistry in the antarctic boundary layer. Atmospheric Chemistry and Physics, 2010, 10, 10187-10209.	1.9	56
20	The multi-seasonal NO_y budget in coastal Antarctica and its link with surface snow and ice core nitrate: results from the CHABLIS campaign. Atmospheric Chemistry and Physics, 2011, 11, 9271-9285.	1.9	52
21	The diurnal variability of atmospheric nitrogen oxides (NO and) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 667 Td (NO<sub&a stability and snow emissions. Atmospheric Chemistry and Physics, 2013, 13, 3045-3062.	1.9	52
22	Sea salt as an ice core proxy for past sea ice extent: A processâ€based model study. Journal of Geophysical Research D: Atmospheres, 2014, 119, 5737-5756.	1.2	45
23	An analysis of the oxidation potential of the South Pole boundary layer and the influence of stratospheric ozone depletion. Journal of Geophysical Research, 2003, 108, .	3.3	37
24	Summertime NO_x measurements during the CHABLIS campaign: can source and sink estimates unravel observed diurnal cycles?. Atmospheric Chemistry and Physics, 2012, 12, 989-1002.	1.9	36
25	High temporal resolution Br₂, BrCl and BrO observations in coastal Antarctica. Atmospheric Chemistry and Physics, 2013, 13, 1329-1343.	1.9	33
26	Sea salt aerosol production via sublimating wind-blown saline snow particles over sea ice: parameterizations and relevant microphysical mechanisms. Atmospheric Chemistry and Physics, 2019, 19, 8407-8424.	1.9	33
27	Investigating possible causes of the observed diurnal variability in Antarctic NOy. Geophysical Research Letters, 1999, 26, 2853-2856.	1.5	32
28	Particles and iodine compounds in coastal Antarctica. Journal of Geophysical Research D: Atmospheres, 2015, 120, 7144-7156.	1.2	32
29	Inter-annual variability of surface ozone at coastal (Dumont d'Urville, 2004â€"2014) and inland (Concordia, 2007â€"2014) sites in East Antarctica. Atmospheric Chemistry and Physics, 2016, 16, 8053-8069.	1.9	29
30	On the annual variability of Antarctic aerosol size distributions at Halley Research Station. Atmospheric Chemistry and Physics, 2020, 20, 4461-4476.	1.9	21
31	Facility level measurement of offshore oil and gas installations from a medium-sized airborne platform: method development for quantification and source identification of methane emissions. Atmospheric Measurement Techniques, 2021, 14, 71-88.	1.2	21
32	Underway seawater and atmospheric measurements of volatile organic compounds in the Southern Ocean. Biogeosciences, 2020, 17, 2593-2619.	1.3	19
33	Deposition, recycling, and archival of nitrate stable isotopes between the airâ€"snow interface: comparison between Dronning Maud Land and Dome C, Antarctica. Atmospheric Chemistry and Physics, 2020, 20, 5861-5885.	1.9	18
34	A network of autonomous surface ozone monitors in Antarctica: technical description and first results. Atmospheric Measurement Techniques, 2011, 4, 645-658.	1.2	17
35	Stratospheric Ozone Changes From Explosive Tropical Volcanoes: Modeling and Ice Core Constraints. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2019JD032290.	1.2	14
36	The spatial scale of ozone depletion events derived from an autonomous surface ozone network in coastal Antarctica. Atmospheric Chemistry and Physics, 2013, 13, 1457-1467.	1.9	13

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37	HO₂NO₂ and HNO₃ in the coastal Antarctic winter night: a "lab-in-the-field" experiment. Atmospheric Chemistry and Physics, 2014, 14, 11843-11851.	1.9	12
38	Speciation of VOC emissions related to offshore North Sea oil and gas production. Atmospheric Chemistry and Physics, 2021, 21, 3741-3762.	1.9	11
39	Segmented flow coil equilibrator coupled to a proton-transfer-reaction mass spectrometer for measurements of a broad range of volatile organic compounds in seawater. Ocean Science, 2019, 15, 925-940.	1.3	10
40	Sea ice concentration impacts dissolved organic gases in the Canadian Arctic. Biogeosciences, 2022, 19, 1021-1045.	1.3	9
41	Influence of Sea Iceâ€Derived Halogens on Atmospheric HO_x as Observed in Springtime Coastal Antarctica. Geophysical Research Letters, 2019, 46, 10168-10176.	1.5	8
42	Î´ ¹³ C methane source signatures from tropical wetland and rice field emissions. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2022, 380, 20200449.	1.6	8
43	Fostering multidisciplinary research on interactions between chemistry, biology, and physics within the coupled cryosphere-atmosphere system. Elementa, 2019, 7, .	1.1	6
44	Isotopic signatures of methane emissions from tropical fires, agriculture and wetlands: the MOYA and ZWAMPS flights. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2022, 380, 20210112.	1.6	6
45	Simulation of submillimetre atmospheric spectra for characterising potential ground-based remote sensing observations. Atmospheric Measurement Techniques, 2016, 9, 5461-5485.	1.2	3
46	Two decades of flask observations of atmospheric <i>Î´</i>(O₂âˆ•N₂), CO₂, and APO at stations Lutjewad (the Netherlands) and Mace Head (Ireland), and 3Âyears from Halley station (Antarctica). Earth System Science Data, 2022, 14, 991-1014.	3.7	2