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	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
2	Sea ice concentration impacts dissolved organic gases in the Canadian Arctic. Biogeosciences, 2022, 19, 1021-1045.	1.3	9
3	Two decades of flask observations of atmospheric <i>Î´</i>(O₂â^•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
4	<i>Î´</i> 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
5	Speciation of VOC emissions related to offshore North Sea oil and gas production. Atmospheric Chemistry and Physics, 2021, 21, 3741-3762.	1.9	11
6	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
7	On the annual variability of Antarctic aerosol size distributions at Halley Research Station. Atmospheric Chemistry and Physics, 2020, 20, 4461-4476.	1.9	21
8	Stratospheric Ozone Changes From Explosive Tropical Volcanoes: Modeling and Ice Core Constraints. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2019JD032290.	1.2	14
9	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
10	Underway seawater and atmospheric measurements of volatile organic compounds in the Southern Ocean. Biogeosciences, 2020, 17, 2593-2619.	1.3	19
11	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
12	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
13	Influence of Sea Iceâ€Derived Halogens on Atmospheric HO_{<i>x</i>} as Observed in Springtime Coastal Antarctica. Geophysical Research Letters, 2019, 46, 10168-10176.	1.5	8
14	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
15	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
16	Fostering multidisciplinary research on interactions between chemistry, biology, and physics within the coupled cryosphere-atmosphere system. Elementa, 2019, 7, .	1.1	6
17	Simulation of submillimetre atmospheric spectra for characterising potential ground-based remote sensing observations. Atmospheric Measurement Techniques, 2016, 9, 5461-5485.	1.2	3
18	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

#	ARTICLE	IF	CITATIONS
19	Particles and iodine compounds in coastal Antarctica. Journal of Geophysical Research D: Atmospheres, 2015, 120, 7144-7156.	1.2	32
20	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
21	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
22	High temporal resolution Br₂, BrCl and BrO observations in coastal Antarctica. Atmospheric Chemistry and Physics, 2013, 13, 1329-1343.	1.9	33
23	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
24	The diurnal variability of atmospheric nitrogen oxides (NO and) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 547 Td (NO<sub>2 stability and snow emissions. Atmospheric Chemistry and Physics, 2013, 13, 3045-3062.	1.9	52
25	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
26	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
27	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
28	A network of autonomous surface ozone monitors in Antarctica: technical description and first results. Atmospheric Measurement Techniques, 2011, 4, 645-658.	1.2	17
29	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
30	BrO, blizzards, and drivers of polar tropospheric ozone depletion events. Atmospheric Chemistry and Physics, 2009, 9, 4639-4652.	1.9	98
31	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
32	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
33	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
34	Boundary Layer Halogens in Coastal Antarctica. Science, 2007, 317, 348-351.	6.0	276
35	Observations of OH and HO₂ radicals in coastal Antarctica. Atmospheric Chemistry and Physics, 2007, 7, 4171-4185.	1.9	69
36	An overview of snow photochemistry: evidence, mechanisms and impacts. Atmospheric Chemistry and Physics, 2007, 7, 4329-4373.	1.9	554

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37	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
38	A review of surface ozone in the polar regions. Atmospheric Environment, 2007, 41, 5138-5161.	1.9	133
39	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
40	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
41	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
42	Modelling photochemical NOXproduction and nitrate loss in the upper snowpack of Antarctica. Geophysical Research Letters, 2002, 29, 5-1-5-4.	1.5	67
43	Measurements of NOxemissions from the Antarctic snowpack. Geophysical Research Letters, 2001, 28, 1499-1502.	1.5	167
44	Speciation and rate of photochemical NO and NO2production in Antarctic snow. Geophysical Research Letters, 2000, 27, 345-348.	1.5	202
45	Investigating possible causes of the observed diurnal variability in Antarctic NOy. Geophysical Research Letters, 1999, 26, 2853-2856.	1.5	32
46	Oxidized nitrogen chemistry and speciation in the Antarctic troposphere. Journal of Geophysical Research, 1999, 104, 21355-21366.	3.3	80