

James B Mcquaid

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1773900/publications.pdf>

Version: 2024-02-01

73
papers

3,804
citations

109264

35
h-index

149623

56
g-index

88
all docs

88
docs citations

88
times ranked

4594
citing authors

#	ARTICLE	IF	CITATIONS
1	Extensive halogen-mediated ozone destruction over the tropical Atlantic Ocean. <i>Nature</i> , 2008, 453, 1232-1235.	13.7	432
2	Optical properties of Saharan dust aerosol and contribution from the coarse mode as measured during the Fennec 2011 aircraft campaign. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 303-325.	1.9	172
3	Nitrogen management is essential to prevent tropical oil palm plantations from causing ground-level ozone pollution. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 18447-18451.	3.3	161
4	Modeling OH, HO ₂ , and RO ₂ radicals in the marine boundary layer: 1. Model construction and comparison with field measurements. <i>Journal of Geophysical Research</i> , 1999, 104, 30241-30255.	3.3	126
5	Meteorology and dust in the central Sahara: Observations from Fennec supersite during the June 2011 Intensive Observation Period. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 4069-4089.	1.2	123
6	South East Pacific atmospheric composition and variability sampled along 20° S during VOCALS-REx. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 5237-5262.	1.9	119
7	Meteorology, Air Quality, and Health in London: The ClearfLo Project. <i>Bulletin of the American Meteorological Society</i> , 2015, 96, 779-804.	1.7	105
8	Airborne observations of regional variation in fluorescent aerosol across the United States. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 1153-1170.	1.2	93
9	Trace gas chemistry in a young biomass burning plume over Namibia: Observations and model simulations. <i>Journal of Geophysical Research</i> , 2003, 108, n/a-n/a.	3.3	92
10	Influence of chemical weathering and aging of iron oxides on the potential iron solubility of Saharan dust during simulated atmospheric processing. <i>Global Biogeochemical Cycles</i> , 2011, 25, n/a-n/a.	1.9	90
11	Secondary organic aerosol from biogenic VOCs over West Africa during AMMA. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 3841-3850.	1.9	85
12	Algal photophysiology drives darkening and melt of the Greenland Ice Sheet. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 5694-5705.	3.3	81
13	Coarse-mode mineral dust size distributions, composition and optical properties from AER-D aircraft measurements over the tropical eastern Atlantic. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 17225-17257.	1.9	80
14	Glacier algae accelerate melt rates on the south-western Greenland Ice Sheet. <i>Cryosphere</i> , 2020, 14, 309-330.	1.5	78
15	Biogenic nitrogen oxide emissions from soils: impact on NO _x and ozone over west Africa during AMMA (African Monsoon Multidisciplinary Analysis): observational study. <i>Atmospheric Chemistry and Physics</i> , 2008, 8, 2285-2297.	1.9	73
16	Chemical composition observed over the mid-Atlantic and the detection of pollution signatures far from source regions. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	70
17	Atmospheric Ice Nucleating Particles in the Dusty Tropical Atlantic. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 2175-2193.	1.2	66
18	The North Atlantic Marine Boundary Layer Experiment (NAMBLEX). Overview of the campaign held at Mace Head, Ireland, in summer 2002. <i>Atmospheric Chemistry and Physics</i> , 2006, 6, 2241-2272.	1.9	65

#	ARTICLE	IF	CITATIONS
19	Establishing Lagrangian connections between observations within air masses crossing the Atlantic during the International Consortium for Atmospheric Research on Transport and Transformation experiment. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	60
20	HO ₂ and NO ₂ observations over West Africa during AMMA: impact of isoprene and NO _x . <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 9415-9429.	1.9	59
21	Cross-hemispheric transport of central African biomass burning pollutants: implications for downwind ozone production. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 3027-3046.	1.9	58
22	The Turbulent Structure and Diurnal Growth of the Saharan Atmospheric Boundary Layer. <i>Journals of the Atmospheric Sciences</i> , 2015, 72, 693-713.	0.6	58
23	Evaluation of a Lagrangian box model using field measurements from EASE (Eastern Atlantic Summer) Tj ETQq1 1 0,784314 rgBT /Over	1.9	57
24	Advances in understanding mineral dust and boundary layer processes over the Sahara from Fennec aircraft observations. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 8479-8520.	1.9	57
25	Contributions of biogenic material to the atmospheric ice-nucleating particle population in North Western Europe. <i>Scientific Reports</i> , 2018, 8, 13821.	1.6	56
26	Eastern Atlantic Spring Experiment 1997 (EASE97) 2. Comparisons of model concentrations of OH, HO ₂ , and RO ₂ with measurements. <i>Journal of Geophysical Research</i> , 2002, 107, ACH 5-1.	3.3	55
27	Two high-speed, portable GC systems designed for the measurement of non-methane hydrocarbons and PAN: Results from the Jungfraujoch High Altitude Observatory. <i>Journal of Environmental Monitoring</i> , 2004, 6, 234.	2.1	55
28	Direct estimates of emissions from the megacity of Lagos. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 8471-8477.	1.9	55
29	Physical Exchanges at the Air-Sea Interface: UK SOLAS Field Measurements. <i>Bulletin of the American Meteorological Society</i> , 2009, 90, 629-644.	1.7	52
30	Meteorological and dust aerosol conditions over the western Saharan region observed at Fennec Supersite during the intensive observation period in June 2011. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 8426-8447.	1.2	52
31	The ice-nucleating ability of quartz immersed in water and its atmospheric importance compared to K-feldspar. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 11343-11361.	1.9	50
32	Mineral phosphorus drives glacier algal blooms on the Greenland Ice Sheet. <i>Nature Communications</i> , 2021, 12, 570.	5.8	50
33	Atmospheric monitoring of volatile organic compounds using programmed temperature vaporization injection. <i>Journal of High Resolution Chromatography</i> , 1996, 19, 686-690.	2.0	46
34	Title is missing!. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1997, 93, 2921-2927.	1.7	43
35	Airborne measurements of trace gases and aerosols over the London metropolitan region. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 5163-5187.	1.9	43
36	Non-methane hydrocarbons in the Arctic boundary layer. <i>Atmospheric Environment</i> , 2002, 36, 3217-3229.	1.9	41

#	ARTICLE	IF	CITATIONS
37	The Fennec Automatic Weather Station (AWS) Network: Monitoring the Saharan Climate System. <i>Journal of Atmospheric and Oceanic Technology</i> , 2013, 30, 709-724.	0.5	39
38	The diversity of ice algal communities on the Greenland Ice Sheet as revealed by oligotyping. <i>Microbial Genomics</i> , 2018, 4, .	1.0	39
39	Rapid uplift of nonmethane hydrocarbons in a cold front over central Europe. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	36
40	The atmospheric chemistry of trace gases and particulate matter emitted by different land uses in Borneo. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2011, 366, 3177-3195.	1.8	36
41	Diurnal cycles of short-lived tropospheric alkenes at a north Atlantic coastal site. <i>Atmospheric Environment</i> , 1999, 33, 2417-2422.	1.9	35
42	Quantifying particle size and turbulent scale dependence of dust flux in the Sahara using aircraft measurements. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 7577-7598.	1.2	35
43	Iceland is an episodic source of atmospheric ice-nucleating particles relevant for mixed-phase clouds. <i>Science Advances</i> , 2020, 6, eaba8137.	4.7	33
44	A detailed case study of isoprene chemistry during the EASE96 Mace Head campaign. <i>Atmospheric Environment</i> , 2000, 34, 2827-2836.	1.9	32
45	Aerosol Direct Radiative Impact Experiment (ADRIEX) overview. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2007, 133, 3-15.	1.0	32
46	Statistical inference of OH concentrations and air mass dilution rates from successive observations of nonmethane hydrocarbons in single air masses. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	31
47	Processes controlling the concentration of hydroperoxides at Jungfraujoch Observatory, Switzerland. <i>Atmospheric Chemistry and Physics</i> , 2006, 6, 5525-5536.	1.9	30
48	The Use of the Helium Ionization Detector for Gas Chromatographic Monitoring of Trace Atmospheric Components. <i>Journal of High Resolution Chromatography</i> , 1998, 21, 75-80.	2.0	28
49	A comparison of modulating interface technologies in comprehensive two-dimensional gas chromatography (GC ₂ /2GC). <i>Journal of Separation Science</i> , 2000, 12, 187-193.	1.0	28
50	Bromoform in tropical Atlantic air from 25°N to 25°S. <i>Geophysical Research Letters</i> , 2007, 34, .	1.5	27
51	Size-segregated compositional analysis of aerosol particles collected in the European Arctic during the ACCACIA campaign. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 4063-4079.	1.9	24
52	An instrument for quantifying heterogeneous ice nucleation in multiwell plates using infrared emissions to detect freezing. <i>Atmospheric Measurement Techniques</i> , 2018, 11, 5629-5641.	1.2	22
53	Lagrangian dust model simulations for a case of moist convective dust emission and transport in the western Sahara region during Fennec/LADUNEX. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 6117-6144.	1.2	20
54	New Saharan wind observations reveal substantial biases in analysed dust-generating winds. <i>Atmospheric Science Letters</i> , 2017, 18, 366-372.	0.8	20

#	ARTICLE	IF	CITATIONS
55	Laboratory analysis of the effects of elevated atmospheric carbon dioxide on respiration in biological soil crusts. <i>Journal of Arid Environments</i> , 2013, 98, 52-59.	1.2	18
56	A new thermal gradient ice nucleation diffusion chamber instrument: design, development and first results using Saharan mineral dust. <i>Atmospheric Measurement Techniques</i> , 2009, 2, 221-229.	1.2	16
57	Impact of the 2019/2020 Australian Megafires on Air Quality and Health. <i>GeoHealth</i> , 2021, 5, e2021GH000454.	1.9	16
58	Rapid metal pollutant deposition from the volcanic plume of K��lauea, Hawai��. <i>Communications Earth & Environment</i> , 2021, 2, .	2.6	15
59	Characterisation of the filter inlet system on the FAAM BAe-146 research aircraft and its use for size-resolved aerosol composition measurements. <i>Atmospheric Measurement Techniques</i> , 2019, 12, 5741-5763.	1.2	14
60	A Major Combustion Aerosol Event Had a Negligible Impact on the Atmospheric Ice��Nucleating Particle Population. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2020JD032938.	1.2	14
61	On the composition of Caribbean maritime aerosol particles measured during RICO. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2008, 134, 1059-1063.	1.0	12
62	Intercomparison of VACC- and AMS-derived nitrate, sulphate and ammonium aerosol loadings during ADRIEX. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2007, 133, 77-84.	1.0	10
63	Sub-ppt Atmospheric Measurements Using PTV-GC-FID and Real-Time Digital Signal Processing. <i>Journal of High Resolution Chromatography</i> , 1998, 21, 181-184.	2.0	9
64	Mineral and biological ice-nucleating particles above the South East of the British Isles. <i>Environmental Science Atmospheres</i> , 2021, 1, 176-191.	0.9	9
65	A note on the emission of nitrogen oxides from silage in opened bunker silos. <i>Environmental Monitoring and Assessment</i> , 2002, 74, 209-215.	1.3	8
66	Impact on air quality and health due to the Saddleworth Moor fire in northern England. <i>Environmental Research Letters</i> , 2020, 15, 074018.	2.2	8
67	Title is missing!. <i>Journal of Atmospheric Chemistry</i> , 1999, 34, 185-205.	1.4	6
68	Megacity and local contributions to regional air pollution: an aircraft case study over London. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 7193-7216.	1.9	6
69	Supplement to Physical Exchanges at the Air��Sea Interface: UK��SOLAS Field Measurements. <i>Bulletin of the American Meteorological Society</i> , 2009, 90, ES9-ES16.	1.7	5
70	Impact of the June 2018 Saddleworth Moor wildfires on air quality in northern England. <i>Environmental Research Communications</i> , 2020, 2, 031001.	0.9	5
71	Temporal Variability of Surface Reflectance Supersedes Spatial Resolution in Defining Greenland��s Bare-Ice Albedo. <i>Remote Sensing</i> , 2022, 14, 62.	1.8	4
72	Kinetics of the reactions of OH with 3-methyl-2-cyclohexen-1-one and 3,5,5-trimethyl-2-cyclohexen-1-one under simulated atmospheric conditions. <i>International Journal of Chemical Kinetics</i> , 2002, 34, 7-11.	1.0	3

#	ARTICLE	IF	CITATIONS
73	A comparison of modulating interface technologies in comprehensive two-dimensional gas chromatography (GC \bar{A} –GC)., 2000, 12, 187.		1