Clare Paton-Walsh

List of Publications by Year
in descending order

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Version: 2024-02-01

		201674	265206
83	2,450	27	42
papers	citations	h-index	g-index

123	123	123	2666
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Key challenges for tropospheric chemistry in the Southern Hemisphere. Elementa, 2022, 10, .	3.2	7
2	Performance of open-path lasers and Fourier transform infrared spectroscopic systems in agriculture emissions research. Atmospheric Measurement Techniques, 2022, 15, 3593-3610.	3.1	12
3	The first steps on the journey towards curriculum reconciliation in science, medicine and health education. Higher Education Research and Development, 2021, 40, 194-206.	2.9	10
4	COVIDâ€19 Crisis Reduces Free Tropospheric Ozone Across the Northern Hemisphere. Geophysical Research Letters, 2021, 48, e2020GL091987.	4.0	51
5	Ubiquitous atmospheric production of organic acids mediated by cloud droplets. Nature, 2021, 593, 233-237.	27.8	71
6	2019â€“20 Australian Bushfires and Anomalies in Carbon Monoxide Surface and Column Measurements. Atmosphere, 2021, 12, 755.	2.3	5
7	Seasonal Variation of Biogenic and Anthropogenic VOCs in a Semi-Urban Area Near Sydney, Australia. Atmosphere, 2021, 12, 47.	2.3	8
8	The Carbon Cycle of Southeast Australia During 2019â€“2020: Drought, Fires, and Subsequent Recovery. AGU Advances, 2021, 2, .	5.4	21
9	Cumulative Firefighter Exposure to Multiple Toxins Emitted During Prescribed Burns in Australia. Exposure and Health, 2020, 12, 721-733.	4.9	10
10	Evaluation of Regional Air Quality Models over Sydney, Australia: Part 2, Comparison of PM2.5 and Ozone. Atmosphere, 2020, 11, 233.	2.3	15
11	Composition of Clean Marine Air and Biogenic Influences on VOCs during the MUMBA Campaign. Atmosphere, 2019, 10, 383.	2.3	8
12	Evaluation of Regional Air Quality Models over Sydney and Australia: Part 1â€”Meteorological Model Comparison. Atmosphere, 2019, 10, 374.	2.3	17
13	Characterization of aerosols over the Great Barrier Reef: The influence of transported continental sources. Science of the Total Environment, 2019, 690, 426-437.	8.0	16
14	Decreasing Trend in Formaldehyde Detected From 20â€Year Record at Wollongong, Southeast Australia. Geophysical Research Letters, 2019, 46, 8464-8473.	4.0	6
15	Particle Formation in a Complex Environment. Atmosphere, 2019, 10, 275.	2.3	7
16	Simultaneous shipborne measurements of CO₂, CH₄ and CO and their application to improving greenhouse-gas flux estimates in Australia. Atmospheric Chemistry and Physics, 2019, 19, 7055-7072.	4.9	5
17	Understanding Spatial Variability of Air Quality in Sydney: Part 1â€”A Suburban Balcony Case Study. Atmosphere, 2019, 10, 181.	2.3	5
18	Multiscale Applications of Two Online-Coupled Meteorology-Chemistry Models During Recent Field Campaigns in Australia, Part II: Comparison of WRF/Chem and WRF/Chem-ROMS and Impacts of Air-Sea Interactions and Boundary Conditions. Atmosphere, 2019, 10, 210.	2.3	7

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19	Vehicle Ammonia Emissions Measured in An Urban Environment in Sydney, Australia, Using Open Path Fourier Transform Infra-Red Spectroscopy. Atmosphere, 2019, 10, 208.	2.3	19
20	Multiscale Applications of Two Online-Coupled Meteorology-Chemistry Models during Recent Field Campaigns in Australia, Part I: Model Description and WRF/Chem-ROMS Evaluation Using Surface and Satellite Data and Sensitivity to Spatial Grid Resolutions. Atmosphere, 2019, 10, 189.	2.3	10
21	Roadside Moss Turfs in South East Australia Capture More Particulate Matter Along an Urban Gradient than a Common Native Tree Species. Atmosphere, 2019, 10, 224.	2.3	14
22	Understanding Spatial Variability of Air Quality in Sydney: Part 2â€"A Roadside Case Study. Atmosphere, 2019, 10, 217.	2.3	27
23	Air Quality Impacts of Smoke from Hazard Reduction Burns and Domestic Wood Heating in Western Sydney. Atmosphere, 2019, 10, 557.	2.3	12
24	A Clean Air Plan for Sydney: An Overview of the Special Issue on Air Quality in New South Wales. Atmosphere, 2019, 10, 774.	2.3	29
25	Investigation of mercury emissions from burning of Australian eucalypt forest surface fuels using a combustion wind tunnel and field observations. Atmospheric Environment, 2019, 202, 17-27.	4.1	21
26	Satellite and ground-based measurements of XCO₂ in aÂremote semiarid region of Australia. Earth System Science Data, 2019, 11, 935-946.	9.9	18
27	Fine Particle Emissions From Tropical Peat Fires Decrease Rapidly With Time Since Ignition. Journal of Geophysical Research D: Atmospheres, 2018, 123, 5607-5617.	3.3	21
28	Emissions of trace gases from Australian temperate forest fires: emission factors and dependence on modified combustion efficiency. Atmospheric Chemistry and Physics, 2018, 18, 3717-3735.	4.9	38
29	Urban Air Quality in a Coastal City: Wollongong during the MUMBA Campaign. Atmosphere, 2018, 9, 500.	2.3	22
30	Hot Summers: Effect of Extreme Temperatures on Ozone in Sydney, Australia. Atmosphere, 2018, 9, 466.	2.3	25
31	NDACC harmonized formaldehyde time series from 21 FTIR stations covering a wide range of column abundances. Atmospheric Measurement Techniques, 2018, 11, 5049-5073.	3.1	37
32	Characteristics of airborne particle number size distributions in a coastal-urban environment. Atmospheric Environment, 2018, 186, 256-265.	4.1	12
33	Emissions of Selected Semivolatile Organic Chemicals from Forest and Savannah Fires. Environmental Science & Technology, 2017, 51, 1293-1302.	10.0	35
34	Emission factors of trace gases and particles from tropical savanna fires in Australia. Journal of Geophysical Research D: Atmospheres, 2017, 122, 6059-6074.	3.3	32
35	Biomass burning emissions in north Australia during the early dry season: an overview of the 2014 SAFIRED campaign. Atmospheric Chemistry and Physics, 2017, 17, 13681-13697.	4.9	24
36	The recent increase of atmospheric methane from 10 years of ground-based NDACC FTIR observations since 2005. Atmospheric Chemistry and Physics, 2017, 17, 2255-2277.	4.9	33

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37	Biomass burning and biogenic aerosols in northern Australia during the SAFIRED campaign. Atmospheric Chemistry and Physics, 2017, 17, 3945-3961.	4.9	16
38	Validation of MOPITT carbon monoxide using ground-based Fourier transform infrared spectrometer data from NDACC. Atmospheric Measurement Techniques, 2017, 10, 1927-1956.	3.1	44
39	The MUMBA campaign: measurements of urban, marine and biogenic air. Earth System Science Data, 2017, 9, 349-362.	9.9	24
40	Seasonal variability of surface and column carbon monoxide over the megacity Paris, high-altitude Jungfraujoch and Southern Hemispheric Wollongong stations. Atmospheric Chemistry and Physics, 2016, 16, 10911-10925.	4.9	28
41	Dry season aerosol iron solubility in tropical northern Australia. Atmospheric Chemistry and Physics, 2016, 16, 12829-12848.	4.9	30
42	Current estimates of biogenic emissions from eucalypts uncertain for southeast Australia. Atmospheric Chemistry and Physics, 2016, 16, 6997-7011.	4.9	44
43	HCOOH distributions from IASI for 2008â€“2014: comparison with ground-based FTIR measurements and a global chemistry-transport model. Atmospheric Chemistry and Physics, 2016, 16, 8963-8981.	4.9	13
44	Source and meteorological influences on air quality (CO, CH4 & CO2) at a Southern Hemisphere urban site. Atmospheric Environment, 2016, 126, 274-289.	4.1	46
45	Impact of the New South Wales fires during October 2013 on regional air quality in eastern Australia. Atmospheric Environment, 2016, 131, 150-163.	4.1	35
46	Multi-model simulation of CO and HCHO in the Southern Hemisphere: comparison with observations and impact of biogenic emissions. Atmospheric Chemistry and Physics, 2015, 15, 7217-7245.	4.9	31
47	Identifying fire plumes in the Arctic with tropospheric FTIR measurements and transport models. Atmospheric Chemistry and Physics, 2015, 15, 2227-2246.	4.9	28
48	Acetylene (C₂H₂) and hydrogen cyanide (HCN) from IASI satellite observations: global distributions, validation, and comparison with model. Atmospheric Chemistry and Physics, 2015, 15, 10509-10527.	4.9	7
49	Recent Northern Hemisphere stratospheric HCl increase due to atmospheric circulation changes. Nature, 2014, 515, 104-107.	27.8	110
50	New emission factors for Australian vegetation fires measured using open-path Fourier transform infrared spectroscopy â€“ Part 1: Methods and Australian temperate forest fires. Atmospheric Chemistry and Physics, 2014, 14, 11313-11333.	4.9	59
51	Field measurements of trace gases emitted by prescribed fires in southeastern US pine forests using an open-path FTIR system. Atmospheric Chemistry and Physics, 2014, 14, 199-215.	4.9	81
52	New emission factors for Australian vegetation fires measured using open-path Fourier transform infrared spectroscopy â€“ Part 2: Australian tropical savanna fires. Atmospheric Chemistry and Physics, 2014, 14, 11335-11352.	4.9	29
53	Measurements of CO, HCN, and C₂H₆Total Columns in Smoke Plumes Transported from the 2010 Russian Boreal Forest Fires to the Canadian High Arctic. Atmosphere - Ocean, 2013, 51, 522-531.	1.6	19
54	Validation of IASI FORLI carbon monoxide retrievals using FTIR data from NDACC. Atmospheric Measurement Techniques, 2012, 5, 2751-2761.	3.1	45

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55	Satellite evidence for a large source of formic acid from boreal and tropical forests. Nature Geoscience, 2012, 5, 26-30.	12.9	171
56	Observed and simulated time evolution of HCl, ClONO₂, and HF total column abundances. Atmospheric Chemistry and Physics, 2012, 12, 3527-3556.	4.9	72
57	Australia's Black Saturday fires â€“ Comparison of techniques for estimating emissions from vegetation fires. Atmospheric Environment, 2012, 60, 262-270.	4.1	23
58	Long-range correlations in Fourier transform infrared, satellite, and modeled CO in the Southern Hemisphere. Journal of Geophysical Research, 2012, 117, n/a-n/a.	3.3	15
59	Emission Ratios of the Tropospheric Ozone Precursors Nitrogen Dioxide and Formaldehyde from Australiaâ€™s Black Saturday Fires. Atmosphere, 2011, 2, 617-632.	2.3	13
60	Transport of NOX Emissions from Sugarcane Fertilisation into the Great Barrier Reef Lagoon. Environmental Modeling and Assessment, 2011, 16, 441-452.	2.2	6
61	Formaldehyde and nitrogen dioxide in smoke plumes from Australia's Black Saturday fires. IOP Conference Series: Earth and Environmental Science, 2010, 11, 012023.	0.3	6
62	Estimated total emissions of trace gases from the Canberra Wildfires of 2003: a new method using satellite measurements of aerosol optical depth & the MOZART chemical transport model. Atmospheric Chemistry and Physics, 2010, 10, 5739-5748.	4.9	16
63	Validation of five years (2003â€“2007) of SCIAMACHY CO total column measurements using ground-based spectrometer observations. Atmospheric Measurement Techniques, 2010, 3, 1457-1471.	3.1	31
64	Trainâ€borne measurements of tropical methane enhancements from ephemeral wetlands in Australia. Journal of Geophysical Research, 2010, 115, .	3.3	8
65	Trace gas emissions from savanna fires in northern Australia. Journal of Geophysical Research, 2010, 115, .	3.3	51
66	Absolute Calibration of the Intramolecular Site Preference of ¹⁵N Fractionation in Tropospheric N₂O by FT-IR Spectroscopy. Analytical Chemistry, 2009, 81, 2227-2234.	6.5	15
67	Measurement of methanol emissions from Australian wildfires by groundâ€based solar Fourier transform spectroscopy. Geophysical Research Letters, 2008, 35, .	4.0	33
68	An Intercomparison of Ground-Based Solar FTIR Measurements of Atmospheric Gases at Eureka, Canada. Journal of Atmospheric and Oceanic Technology, 2008, 25, 2028-2036.	1.3	9
69	Evidence of reduced measurement uncertainties from an FTIR instrument intercomparison at Kiruna, Sweden. Journal of Quantitative Spectroscopy and Radiative Transfer, 2005, 96, 75-84.	2.3	21
70	High spectral resolution solar absorption measurements of ethylene in a forest fire smoke plume using HITRAN parameters: Tropospheric vertical profile retrieval. Journal of Quantitative Spectroscopy and Radiative Transfer, 2005, 96, 301-309.	2.3	35
71	Measurements of trace gas emissions from Australian forest fires and correlations with coincident measurements of aerosol optical depth. Journal of Geophysical Research, 2005, 110, .	3.3	72
72	Trace gas emissions from biomass burning inferred from aerosol optical depth. Geophysical Research Letters, 2004, 31, n/a-n/a.	4.0	34

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73	Intercomparison of NDSC Ground-Based Solar FTIR Measurements of Atmospheric Gases at Lauder, New Zealand. Journal of Atmospheric and Oceanic Technology, 2003, 20, 1138-1153.	1.3	33
74	Analysis of the instrumental line shape of high-resolution Fourier transform IR spectrometers with gas cell measurements and new retrieval software. Applied Optics, 1999, 38, 3417.	2.1	233
75	Network for the Detection of Stratospheric Change Fourier transform infrared intercomparison at Table Mountain Facility, November 1996. Journal of Geophysical Research, 1999, 104, 30481-30503.	3.3	53
76	Title is missing!. Journal of Atmospheric Chemistry, 1998, 30, 119-130.	3.2	8
77	Ground-based FTIR Measurements with High Temporal Resolution. Journal of Atmospheric Chemistry, 1998, 30, 131-140.	3.2	4
78	NPL secondary standard radionuclide calibrator: new calibration figures for 106Ru, 153Sm and 188re. Applied Radiation and Isotopes, 1998, 49, 1191-1193.	1.5	6
79	Standardisation and measurement of the decay scheme data of 243Am and 239Np. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1996, 369, 472-476.	1.6	10
80	Calibration of the NPL secondary standard radionuclide calibrator for 32P, 89Sr and 90Y. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1996, 369, 698-702.	1.6	15
81	131I diagnosis and therapy capsules and low dose rate 125I and 137Cs brachytherapy sources. Calibration of the NPL secondary standard radionuclide calibrator. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1996, 369, 703-708.	1.6	7
82	Measurements of stratospheric chlorine monoxide (ClO) from groudbased FTIR observations. Journal of Atmospheric Chemistry, 1996, 24, 285.	3.2	16
83	Remote Sensing of Atmospheric Trace Gases by Ground-Based Solar Fourier Transform Infrared Spectroscopy. , 0, , .		0