

Clare Paton-Walsh

List of Publications by Year in descending order

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Version: 2024-02-01

83
papers

2,450
citations

201674

27
h-index

265206

42
g-index

123
all docs

123
docs citations

123
times ranked

2666
citing authors

#	ARTICLE	IF	CITATIONS
1	Analysis of the instrumental line shape of high-resolution Fourier transform IR spectrometers with gas cell measurements and new retrieval software. <i>Applied Optics</i> , 1999, 38, 3417.	2.1	233
2	Satellite evidence for a large source of formic acid from boreal and tropical forests. <i>Nature Geoscience</i> , 2012, 5, 26-30.	12.9	171
3	Recent Northern Hemisphere stratospheric HCl increase due to atmospheric circulation changes. <i>Nature</i> , 2014, 515, 104-107.	27.8	110
4	Field measurements of trace gases emitted by prescribed fires in southeastern US pine forests using an open-path FTIR system. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 199-215.	4.9	81
5	Measurements of trace gas emissions from Australian forest fires and correlations with coincident measurements of aerosol optical depth. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	72
6	Observed and simulated time evolution of HCl, ClONO ₂ , and HF total column abundances. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 3527-3556.	4.9	72
7	Ubiquitous atmospheric production of organic acids mediated by cloud droplets. <i>Nature</i> , 2021, 593, 233-237.	27.8	71
8	New emission factors for Australian vegetation fires measured using open-path Fourier transform infrared spectroscopy – Part 1: Methods and Australian temperate forest fires. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 11313-11333.	4.9	59
9	Network for the Detection of Stratospheric Change Fourier transform infrared intercomparison at Table Mountain Facility, November 1996. <i>Journal of Geophysical Research</i> , 1999, 104, 30481-30503.	3.3	53
10	Trace gas emissions from savanna fires in northern Australia. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	51
11	COVID-19 Crisis Reduces Free Tropospheric Ozone Across the Northern Hemisphere. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL091987.	4.0	51
12	Source and meteorological influences on air quality (CO, CH ₄ & CO ₂) at a Southern Hemisphere urban site. <i>Atmospheric Environment</i> , 2016, 126, 274-289.	4.1	46
13	Validation of IASI FORLI carbon monoxide retrievals using FTIR data from NDACC. <i>Atmospheric Measurement Techniques</i> , 2012, 5, 2751-2761.	3.1	45
14	Current estimates of biogenic emissions from eucalypts uncertain for southeast Australia. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 6997-7011.	4.9	44
15	Validation of MOPITT carbon monoxide using ground-based Fourier transform infrared spectrometer data from NDACC. <i>Atmospheric Measurement Techniques</i> , 2017, 10, 1927-1956.	3.1	44
16	Emissions of trace gases from Australian temperate forest fires: emission factors and dependence on modified combustion efficiency. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 3717-3735.	4.9	38
17	NDACC harmonized formaldehyde time series from 21 FTIR stations covering a wide range of column abundances. <i>Atmospheric Measurement Techniques</i> , 2018, 11, 5049-5073.	3.1	37
18	High spectral resolution solar absorption measurements of ethylene in a forest fire smoke plume using HITRAN parameters: Tropospheric vertical profile retrieval. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2005, 96, 301-309.	2.3	35

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19	Impact of the New South Wales fires during October 2013 on regional air quality in eastern Australia. <i>Atmospheric Environment</i> , 2016, 131, 150-163.	4.1	35
20	Emissions of Selected Semivolatile Organic Chemicals from Forest and Savannah Fires. <i>Environmental Science & Technology</i> , 2017, 51, 1293-1302.	10.0	35
21	Trace gas emissions from biomass burning inferred from aerosol optical depth. <i>Geophysical Research Letters</i> , 2004, 31, n/a-n/a.	4.0	34
22	Intercomparison of NDSC Ground-Based Solar FTIR Measurements of Atmospheric Gases at Lauder, New Zealand. <i>Journal of Atmospheric and Oceanic Technology</i> , 2003, 20, 1138-1153.	1.3	33
23	Measurement of methanol emissions from Australian wildfires by ground-based solar Fourier transform spectroscopy. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	33
24	The recent increase of atmospheric methane from 10 years of ground-based NDACC FTIR observations since 2005. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 2255-2277.	4.9	33
25	Emission factors of trace gases and particles from tropical savanna fires in Australia. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 6059-6074.	3.3	32
26	Validation of five years (2003–2007) of SCIAMACHY CO total column measurements using ground-based spectrometer observations. <i>Atmospheric Measurement Techniques</i> , 2010, 3, 1457-1471.	3.1	31
27	Multi-model simulation of CO and HCHO in the Southern Hemisphere: comparison with observations and impact of biogenic emissions. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 7217-7245.	4.9	31
28	Dry season aerosol iron solubility in tropical northern Australia. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 12829-12848.	4.9	30
29	New emission factors for Australian vegetation fires measured using open-path Fourier transform infrared spectroscopy – Part 2: Australian tropical savanna fires. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 11335-11352.	4.9	29
30	A Clean Air Plan for Sydney: An Overview of the Special Issue on Air Quality in New South Wales. <i>Atmosphere</i> , 2019, 10, 774.	2.3	29
31	Identifying fire plumes in the Arctic with tropospheric FTIR measurements and transport models. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 2227-2246.	4.9	28
32	Seasonal variability of surface and column carbon monoxide over the megacity Paris, high-altitude Jungfraujoch and Southern Hemispheric Wollongong stations. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 10911-10925.	4.9	28
33	Understanding Spatial Variability of Air Quality in Sydney: Part 2 – A Roadside Case Study. <i>Atmosphere</i> , 2019, 10, 217.	2.3	27
34	Hot Summers: Effect of Extreme Temperatures on Ozone in Sydney, Australia. <i>Atmosphere</i> , 2018, 9, 466.	2.3	25
35	Biomass burning emissions in north Australia during the early dry season: an overview of the 2014 SAFIRE campaign. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 13681-13697.	4.9	24
36	The MUMBA campaign: measurements of urban, marine and biogenic air. <i>Earth System Science Data</i> , 2017, 9, 349-362.	9.9	24

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37	Australia's Black Saturday fires – Comparison of techniques for estimating emissions from vegetation fires. <i>Atmospheric Environment</i> , 2012, 60, 262-270.	4.1	23
38	Urban Air Quality in a Coastal City: Wollongong during the MUMBA Campaign. <i>Atmosphere</i> , 2018, 9, 500.	2.3	22
39	Evidence of reduced measurement uncertainties from an FTIR instrument intercomparison at Kiruna, Sweden. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2005, 96, 75-84.	2.3	21
40	Fine Particle Emissions From Tropical Peat Fires Decrease Rapidly With Time Since Ignition. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 5607-5617.	3.3	21
41	Investigation of mercury emissions from burning of Australian eucalypt forest surface fuels using a combustion wind tunnel and field observations. <i>Atmospheric Environment</i> , 2019, 202, 17-27.	4.1	21
42	The Carbon Cycle of Southeast Australia During 2019–2020: Drought, Fires, and Subsequent Recovery. <i>AGU Advances</i> , 2021, 2, .	5.4	21
43	Measurements of CO, HCN, and C ₂ H ₆ Total Columns in Smoke Plumes Transported from the 2010 Russian Boreal Forest Fires to the Canadian High Arctic. <i>Atmosphere - Ocean</i> , 2013, 51, 522-531.	1.6	19
44	Vehicle Ammonia Emissions Measured in An Urban Environment in Sydney, Australia, Using Open Path Fourier Transform Infra-Red Spectroscopy. <i>Atmosphere</i> , 2019, 10, 208.	2.3	19
45	Satellite and ground-based measurements of XCO ₂ in a remote semiarid region of Australia. <i>Earth System Science Data</i> , 2019, 11, 935-946.	9.9	18
46	Evaluation of Regional Air Quality Models over Sydney and Australia: Part 1 – Meteorological Model Comparison. <i>Atmosphere</i> , 2019, 10, 374.	2.3	17
47	Measurements of stratospheric chlorine monoxide (ClO) from groundbased FTIR observations. <i>Journal of Atmospheric Chemistry</i> , 1996, 24, 285.	3.2	16
48	Estimated total emissions of trace gases from the Canberra Wildfires of 2003: a new method using satellite measurements of aerosol optical depth and the MOZART chemical transport model. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 5739-5748.	4.9	16
49	Biomass burning and biogenic aerosols in northern Australia during the SAFIRED campaign. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 3945-3961.	4.9	16
50	Characterization of aerosols over the Great Barrier Reef: The influence of transported continental sources. <i>Science of the Total Environment</i> , 2019, 690, 426-437.	8.0	16
51	Calibration of the NPL secondary standard radionuclide calibrator for ³² P, ⁸⁹ Sr and ⁹⁰ Y. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1996, 369, 698-702.	1.6	15
52	Absolute Calibration of the Intramolecular Site Preference of ¹⁵ N Fractionation in Tropospheric N ₂ O by FT-IR Spectroscopy. <i>Analytical Chemistry</i> , 2009, 81, 2227-2234.	6.5	15
53	Long-range correlations in Fourier transform infrared, satellite, and modeled CO in the Southern Hemisphere. <i>Journal of Geophysical Research</i> , 2012, 117, n/a-n/a.	3.3	15
54	Evaluation of Regional Air Quality Models over Sydney, Australia: Part 2, Comparison of PM _{2.5} and Ozone. <i>Atmosphere</i> , 2020, 11, 233.	2.3	15

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55	Roadside Moss Turfs in South East Australia Capture More Particulate Matter Along an Urban Gradient than a Common Native Tree Species. <i>Atmosphere</i> , 2019, 10, 224.	2.3	14
56	Emission Ratios of the Tropospheric Ozone Precursors Nitrogen Dioxide and Formaldehyde from Australia's Black Saturday Fires. <i>Atmosphere</i> , 2011, 2, 617-632.	2.3	13
57	HCOOH distributions from IASI for 2008-2014: comparison with ground-based FTIR measurements and a global chemistry-transport model. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 8963-8981.	4.9	13
58	Characteristics of airborne particle number size distributions in a coastal-urban environment. <i>Atmospheric Environment</i> , 2018, 186, 256-265.	4.1	12
59	Air Quality Impacts of Smoke from Hazard Reduction Burns and Domestic Wood Heating in Western Sydney. <i>Atmosphere</i> , 2019, 10, 557.	2.3	12
60	Performance of open-path lasers and Fourier transform infrared spectroscopic systems in agriculture emissions research. <i>Atmospheric Measurement Techniques</i> , 2022, 15, 3593-3610.	3.1	12
61	Standardisation and measurement of the decay scheme data of ²⁴³ Am and ²³⁹ Np. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1996, 369, 472-476.	1.6	10
62	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. <i>Atmosphere</i> , 2019, 10, 189.	2.3	10
63	Cumulative Firefighter Exposure to Multiple Toxins Emitted During Prescribed Burns in Australia. <i>Exposure and Health</i> , 2020, 12, 721-733.	4.9	10
64	The first steps on the journey towards curriculum reconciliation in science, medicine and health education. <i>Higher Education Research and Development</i> , 2021, 40, 194-206.	2.9	10
65	An Intercomparison of Ground-Based Solar FTIR Measurements of Atmospheric Gases at Eureka, Canada. <i>Journal of Atmospheric and Oceanic Technology</i> , 2008, 25, 2028-2036.	1.3	9
66	Title is missing!. <i>Journal of Atmospheric Chemistry</i> , 1998, 30, 119-130.	3.2	8
67	Train-borne measurements of tropical methane enhancements from ephemeral wetlands in Australia. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	8
68	Composition of Clean Marine Air and Biogenic Influences on VOCs during the MUMBA Campaign. <i>Atmosphere</i> , 2019, 10, 383.	2.3	8
69	Seasonal Variation of Biogenic and Anthropogenic VOCs in a Semi-Urban Area Near Sydney, Australia. <i>Atmosphere</i> , 2021, 12, 47.	2.3	8
70	¹³¹ I diagnosis and therapy capsules and low dose rate ¹²⁵ I and ¹³⁷ Cs brachytherapy sources. Calibration of the NPL secondary standard radionuclide calibrator. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1996, 369, 703-708.	1.6	7
71	Acetylene (C ₂ H ₂) and hydrogen cyanide (HCN) from IASI satellite observations: global distributions, validation, and comparison with model. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 10509-10527.	4.9	7
72	Particle Formation in a Complex Environment. <i>Atmosphere</i> , 2019, 10, 275.	2.3	7

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73	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. <i>Atmosphere</i> , 2019, 10, 210.	2.3	7
74	Key challenges for tropospheric chemistry in the Southern Hemisphere. <i>Elementa</i> , 2022, 10, .	3.2	7
75	NPL secondary standard radionuclide calibrator: new calibration figures for ¹⁰⁶ Ru, ¹⁵³ Sm and ¹⁸⁸ Re. <i>Applied Radiation and Isotopes</i> , 1998, 49, 1191-1193.	1.5	6
76	Formaldehyde and nitrogen dioxide in smoke plumes from Australia's Black Saturday fires. <i>IOP Conference Series: Earth and Environmental Science</i> , 2010, 11, 012023.	0.3	6
77	Transport of NOX Emissions from Sugarcane Fertilisation into the Great Barrier Reef Lagoon. <i>Environmental Modeling and Assessment</i> , 2011, 16, 441-452.	2.2	6
78	Decreasing Trend in Formaldehyde Detected From 2006 Year Record at Wollongong, Southeast Australia. <i>Geophysical Research Letters</i> , 2019, 46, 8464-8473.	4.0	6
79	Simultaneous shipborne measurements of CO ₂ , CH ₄ and CO and their application to improving greenhouse-gas flux estimates in Australia. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 7055-7072.	4.9	5
80	Understanding Spatial Variability of Air Quality in Sydney: Part 1 – A Suburban Balcony Case Study. <i>Atmosphere</i> , 2019, 10, 181.	2.3	5
81	2019–20 Australian Bushfires and Anomalies in Carbon Monoxide Surface and Column Measurements. <i>Atmosphere</i> , 2021, 12, 755.	2.3	5
82	Ground-based FTIR Measurements with High Temporal Resolution. <i>Journal of Atmospheric Chemistry</i> , 1998, 30, 131-140.	3.2	4
83	Remote Sensing of Atmospheric Trace Gases by Ground-Based Solar Fourier Transform Infrared Spectroscopy. , 0, , .		0