

# Ian Galbally

## List of Publications by Year in descending order

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124  
papers

7,322  
citations

81839

39  
h-index

64755

79  
g-index

139  
all docs

139  
docs citations

139  
times ranked

6820  
citing authors

#	ARTICLE	IF	CITATIONS
1	Known and Unexplored Organic Constituents in the Earth's Atmosphere. Environmental Science & Technology, 2007, 41, 1514-1521.	4.6	1,317
2	Global distribution and trends of tropospheric ozone: An observation-based review. Elementa, 2014, 2, .	1.1	365
3	The Production of Methanol by Flowering Plants and the Global Cycle of Methanol. Journal of Atmospheric Chemistry, 2002, 43, 195-229.	1.4	345
4	Long-term changes in tropospheric ozone. Atmospheric Environment, 2006, 40, 3156-3173.	1.9	345
5	Destruction of ozone at the earth's surface. Quarterly Journal of the Royal Meteorological Society, 1980, 106, 599-620.	1.0	276
6	Emissions of volatile organic compounds (primarily oxygenated species) from pasture. Journal of Geophysical Research, 1998, 103, 10605-10619.	3.3	223
7	Loss of fixed nitrogen from soils by nitric oxide exhalation. Nature, 1978, 275, 734-735.	13.7	202
8	Recent tropospheric ozone changes – A pattern dominated by slow or no growth. Atmospheric Environment, 2013, 67, 331-351.	1.9	195
9	Secondary organic aerosol formation from a large number of reactive man-made organic compounds. Science of the Total Environment, 2010, 408, 3374-3381.	3.9	191
10	Tropospheric Ozone Assessment Report: Database and metrics data of global surface ozone observations. Elementa, 2017, 5, .	1.1	172
11	Trends of ozone in the troposphere. Geophysical Research Letters, 1998, 25, 139-142.	1.5	156
12	Evidence for photochemical control of ozone concentrations in unpolluted marine air. Nature, 1992, 360, 446-449.	13.7	119
13	Tropospheric Ozone Assessment Report: Tropospheric ozone from 1877 to 2016, observed levels, trends and uncertainties. Elementa, 2019, 7, .	1.1	103
14	Tropospheric ozone in CMIP6 simulations. Atmospheric Chemistry and Physics, 2021, 21, 4187-4218.	1.9	89
15	Fundamental ozone photochemistry in the remote marine boundary layer the soapex experiment, measurement and theory. Atmospheric Environment, 1998, 32, 3647-3664.	1.9	85
16	Ozone profiles and ozone fluxes in the atmospheric surface layer. Quarterly Journal of the Royal Meteorological Society, 1971, 97, 18-29.	1.0	82
17	A model relating laboratory measurements of rates of nitric oxide production and field measurements of nitric oxide emission from soils. Journal of Geophysical Research, 1989, 94, 6473-6480.	3.3	82
18	Soil – Atmosphere Trace Gas Exchange in Semiarid and Arid Zones. Journal of Environmental Quality, 2008, 37, 599-607.	1.0	82

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19	A study of peroxy radicals and ozone photochemistry at coastal sites in the northern and southern hemispheres. <i>Journal of Geophysical Research</i> , 1997, 102, 25417-25427.	3.3	81
20	Production of Nitric Oxide in Loam Under Aerobic and Anaerobic Conditions. <i>Applied and Environmental Microbiology</i> , 1984, 47, 1284-1289.	1.4	81
21	Atmospheric effects from post-nuclear fires. <i>Climatic Change</i> , 1984, 6, 323.	1.7	77
22	Risk factors for increased BTEX exposure in four Australian cities. <i>Chemosphere</i> , 2007, 66, 533-541.	4.2	71
23	Spatial variability of nitrous oxide emissions from an Australian irrigated dairy pasture. <i>Plant and Soil</i> , 2008, 309, 77-88.	1.8	69
24	The annual cycle of peroxides and ozone in marine air at Cape Grim, Tasmania. <i>Journal of Atmospheric Chemistry</i> , 1996, 23, 221-252.	1.4	67
25	Relationships between ozone photolysis rates and peroxy radical concentrations in clean marine air over the Southern Ocean. <i>Journal of Geophysical Research</i> , 1997, 102, 12805-12817.	3.3	67
26	The Global Atmosphere Watch reactive gases measurement network. <i>Elementa</i> , 0, 3, .	1.1	63
27	Some Measurements of Ozone Variation and Destruction in the Atmospheric Surface Layer. <i>Nature</i> , 1968, 218, 456-457.	13.7	60
28	Mid-latitude marine boundary-layer ozone destruction at visible sunrise observed at Cape Grim, Tasmania, 41°S. <i>Geophysical Research Letters</i> , 2000, 27, 3841-3844.	1.5	57
29	Ozone in Central England: the impact of 20 years of precursor emission controls in Europe. <i>Environmental Science and Policy</i> , 2010, 13, 195-204.	2.4	57
30	Man-Made Carbon Tetrachloride in the Atmosphere. <i>Science</i> , 1976, 193, 573-576.	6.0	55
31	Multi-decadal surface ozone trends at globally distributed remote locations. <i>Elementa</i> , 2020, 8, .	1.1	54
32	Emission of nitrogen oxides (NO <sub>x</sub> ) from a flooded soil fertilized with urea: Relation to other nitrogen loss processes. <i>Journal of Atmospheric Chemistry</i> , 1987, 5, 343-365.	1.4	48
33	The global atmospheric budget of ethanol revisited. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 545-555.	1.9	48
34	Tropospheric ozone production regions and the intercontinental origins of surface ozone over Europe. <i>Atmospheric Environment</i> , 2015, 112, 216-224.	1.9	47
35	Nitrous oxide emissions from a legume pasture and the influences of liming and urine addition. <i>Agriculture, Ecosystems and Environment</i> , 2010, 136, 262-272.	2.5	46
36	An improved parameterisation of ozone dry deposition to the ocean and its impact in a global climate-chemistry model. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 3749-3767.	1.9	46

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37	Headspace solid-phase microextraction“ comprehensive two-dimensional gas chromatography of wound induced plant volatile organic compound emissions. <i>Analyst</i> , The, 2002, 127, 1601-1607.	1.7	44
38	Current estimates of biogenic emissions from eucalypts uncertain for southeast Australia. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 6997-7011.	1.9	44
39	Possible impacts of anthropogenic and natural aerosols on Australian climate: a review. <i>International Journal of Climatology</i> , 2009, 29, 461-479.	1.5	43
40	Factors controlling volatile organic compounds in dwellings in Melbourne, Australia. <i>Indoor Air</i> , 2016, 26, 219-230.	2.0	43
41	Towards a Universal “Baseline” Characterisation of Air Masses for High- and Low-Altitude Observing Stations Using Radon-222. <i>Aerosol and Air Quality Research</i> , 2016, 16, 885-899.	0.9	42
42	Volatile organic compounds in selected micro-environments. <i>Chemosphere</i> , 2006, 63, 421-429.	4.2	41
43	Seasonal in situ observations of glyoxal and methylglyoxal over the temperate oceans of the Southern Hemisphere. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 223-240.	1.9	39
44	The fate of urea nitrogen applied in a foliar spray to wheat at heading. <i>Fertilizer Research</i> , 1991, 28, 129-138.	0.5	37
45	Volatile organic compounds in marine air at Cape Grim, Australia. <i>Environmental Chemistry</i> , 2007, 4, 178.	0.7	37
46	Characterizing Atmospheric Transport Pathways to Antarctica and the Remote Southern Ocean Using Radon-222. <i>Frontiers in Earth Science</i> , 2018, 6, .	0.8	37
47	The effect of proximity to major roads on indoor air quality in typical Australian dwellings. <i>Atmospheric Environment</i> , 2011, 45, 2252-2259.	1.9	36
48	The conversion of $\text{N}_2\text{O}_5$ to $\text{HNO}_3$ at high latitudes in winter. <i>Geophysical Research Letters</i> , 1985, 12, 825-828.	1.5	35
49	Indoor air quality in typical temperate zone Australian dwellings. <i>Atmospheric Environment</i> , 2012, 54, 400-407.	1.9	34
50	Gridded global surface ozone metrics for atmospheric chemistry model evaluation. <i>Earth System Science Data</i> , 2016, 8, 41-59.	3.7	34
51	Emission of 1,3-butadiene from petrol-driven motor vehicles. <i>Atmospheric Environment</i> , 1997, 31, 1157-1165.	1.9	32
52	A Simple Model for Estimating Emissions of Volatile Organic Compounds from Grass and Cut Grass in Urban Airsheds and Its Application to Two Australian Cities. <i>Journal of the Air and Waste Management Association</i> , 2004, 54, 1299-1311.	0.9	31
53	Uncertainties in models of tropospheric ozone based on Monte Carlo analysis: Tropospheric ozone burdens, atmospheric lifetimes and surface distributions. <i>Atmospheric Environment</i> , 2018, 180, 93-102.	1.9	31
54	A revised global ozone dry deposition estimate based on a new two-layer parameterisation for air“sea exchange and the multi-year MACC composition reanalysis. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 4329-4348.	1.9	31

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55	Emissions of benzene, toluene, xylenes and 1,3-butadiene from a representative portion of the Australian car fleet. <i>Atmospheric Environment</i> , 1998, 32, 2693-2704.	1.9	30
56	Evaporative emissions of 1,3-butadiene from petrol-fuelled motor vehicles. <i>Atmospheric Environment</i> , 1998, 32, 2685-2692.	1.9	30
57	Quantifying uncertainty in estimates of C emissions from above-ground biomass due to historic land-use change to cropping in Australia. <i>Global Change Biology</i> , 2001, 7, 883-902.	4.2	30
58	Particulate matter at a rural location in southern England during 2006: Model sensitivities to precursor emissions. <i>Atmospheric Environment</i> , 2009, 43, 689-696.	1.9	30
59	Sulphur uptake from the atmosphere by forest and farmland. <i>Nature</i> , 1979, 280, 49-50.	13.7	29
60	Comparisons of field measurements of carbon dioxide and nitrous oxide fluxes with model simulations for a legume pasture in southeast Australia. <i>Journal of Geophysical Research</i> , 1997, 102, 28013-28024.	3.3	29
61	Seasonal cycles of O <sub>3</sub> in the marine boundary layer: Observation and model simulation comparisons. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 538-557.	1.2	29
62	Isoprene and monoterpene emissions in south-east Australia: comparison of a multi-layer canopy model with MEGAN and with atmospheric observations. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 7539-7556.	1.9	29
63	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.	1.0	29
64	Surface ozone at rural sites in the latrobe valley and Cape Grim, Australia. <i>Atmospheric Environment</i> , 1986, 20, 2403-2422.	1.1	28
65	Measurements of biomass burning influences in the troposphere over southeast Australia during the SAFARI 2000 dry season campaign. <i>Journal of Geophysical Research</i> , 2003, 108, n/a-n/a.	3.3	28
66	Reactivity Scales as Comparative Tools for Chemical Mechanisms. <i>Journal of the Air and Waste Management Association</i> , 2010, 60, 914-924.	0.9	28
67	Effect of additions of nitrogen and sulfur to irrigated wheat at heading on grain yield, composition and milling and baking quality. <i>Australian Journal of Experimental Agriculture</i> , 1990, 30, 95.	1.0	28
68	Predictions of plume dispersion in complex terrain: Eulerian versus Lagrangian models. <i>Atmospheric Environment</i> , 1997, 31, 947-958.	1.9	27
69	Boundary layer new particle formation over East Antarctic sea ice – possible Hg-driven nucleation?. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 13339-13364.	1.9	27
70	Biomass burning emissions of trace gases and particles in marine air at Cape Grim, Tasmania. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 13393-13411.	1.9	27
71	Zonal Similarity of Long-term Changes and Seasonal Cycles of Baseline Ozone at Northern Midlatitudes. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2019JD031908.	1.2	27
72	Ozone fluxes over snow surfaces. <i>Journal of Geophysical Research</i> , 1972, 77, 3946-3949.	3.3	26

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73	Interference in the PTR-MS measurement of acetonitrile at m/z 42 in polluted urban air—A study using switchable reagent ion PTR-MS. <i>International Journal of Mass Spectrometry</i> , 2012, 319-320, 40-47.	0.7	26
74	Ethanol in the Environment: A Critical Review of Its Roles as a Natural Product, a Biofuel, and a Potential Environmental Pollutant. <i>Critical Reviews in Environmental Science and Technology</i> , 2012, 42, 1735-1779.	6.6	25
75	The MUMBA campaign: measurements of urban, marine and biogenic air. <i>Earth System Science Data</i> , 2017, 9, 349-362.	3.7	24
76	Comparison of VOC measurements made by PTR-MS, adsorbent tubes—GC-FID-MS and DNPH derivatization—HPLC during the Sydney Particle Study, 2012: a contribution to the assessment of uncertainty in routine atmospheric VOC measurements. <i>Atmospheric Measurement Techniques</i> , 2018, 11, 141-159.	1.2	23
77	Modelling PM10 concentrations and carrying capacity associated with woodheater emissions in Launceston, Tasmania. <i>Atmospheric Environment</i> , 2006, 40, 5543-5557.	1.9	22
78	Urban Air Quality in a Coastal City: Wollongong during the MUMBA Campaign. <i>Atmosphere</i> , 2018, 9, 500.	1.0	22
79	Fate of urea nitrogen applied to irrigated wheat at heading. <i>Australian Journal of Agricultural Research</i> , 1989, 40, 951.	1.5	22
80	Surface ozone observations at Aspendale, Victoria, 1964—1970. <i>Atmospheric Environment</i> , 1971, 5, 15-25.	1.1	21
81	Soil—atmosphere exchange of CH <sub>4</sub> , CO, N <sub>2</sub> O and NO <sub>x</sub> and the effects of land-use change in the semiarid Mallee system in Southeastern Australia. <i>Global Change Biology</i> , 2010, 16, 2407-2419.	4.2	21
82	Water vapor interference in the measurement of ozone in ambient air by ultraviolet absorption. <i>Review of Scientific Instruments</i> , 1991, 62, 223-228.	0.6	19
83	New directions: Atmospheric chemical mechanisms for the future. <i>Atmospheric Environment</i> , 2015, 122, 609-610.	1.9	19
84	Interhemispheric differences in seasonal cycles of tropospheric ozone in the marine boundary layer: Observation—model comparisons. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 11,075.	1.2	19
85	On the changes in surface ozone over the twenty-first century: sensitivity to changes in surface temperature and chemical mechanisms. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2020, 378, 20190329.	1.6	18
86	Precursors to Particles (P2P) at Cape Grim 2006: campaign overview. <i>Environmental Chemistry</i> , 2007, 4, 143.	0.7	17
87	Biogenic VOC emissions from fresh leaf mulch and wood chips of <i>Grevillea robusta</i> (Australian Silky) Tj ETQq1 1 0.784314 rgBT /Overl	1.9	16
88	Fate of urea nitrogen applied in solution in furrows to sunflowers growing on a red-brown earth: transformations, losses and plant uptake. <i>Australian Journal of Agricultural Research</i> , 1988, 39, 793.	1.5	16
89	Emission of oxides of nitrogen (NO <sub>x</sub> ) and ammonia from the earth's surface. <i>Tellus</i> , 1975, 27, 67-70.	0.4	15
90	Parameters for global ecosystem models. <i>Nature</i> , 1999, 399, 535-535.	13.7	15

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91	Measurements of nitric oxide in the stratosphere of the Southern Hemisphere. Quarterly Journal of the Royal Meteorological Society, 1980, 106, 887-894.	1.0	13
92	Seasonal cycles in short-lived hydrocarbons in baseline air masses arriving at Mace Head, Ireland. Atmospheric Environment, 2012, 62, 89-96.	1.9	13
93	Changes to simulated global atmospheric composition resulting from recent revisions to isoprene oxidation chemistry. Atmospheric Environment, 2021, 244, 117914.	1.9	13
94	An evaluation of the ehmert technique for measuring ozone profiles in the atmospheric surface layer. Journal of Geophysical Research, 1969, 74, 6869-6872.	3.3	12
95	Gas Transfer Near the Earth's Surface. Advances in Geophysics, 1975, , 329-339.	1.1	12
96	Production of carbon monoxide in rain water. Journal of Geophysical Research, 1972, 77, 7129-7132.	3.3	11
97	BVOC emissions from mechanical wounding of leaves and branches of Eucalyptus sideroxylon (red) Tj ETQq1 1 0.784314 rgBT /Overlo	1.4	11
98	The Health Impacts of Ethanol Blend Petrol. Energies, 2011, 4, 352-367.	1.6	11
99	Intercomparison of chemical mechanisms for air quality policy formulation and assessment under North American conditions. Journal of the Air and Waste Management Association, 2017, 67, 789-796.	0.9	11
100	Atmospheric short-chain-chlorinated paraffins in Melbourne, Australia – first extensive Southern Hemisphere observations. Environmental Chemistry, 2017, 14, 106.	0.7	11
101	The contribution from shipping emissions to air quality and acid deposition in Europe. Ambio, 2005, 34, 54-9.	2.8	11
102	Household wood heater usage and indoor leakage of BTEX in Launceston, Australia: A null result. Atmospheric Environment, 2009, 43, 2788-2795.	1.9	10
103	Biomass burning at Cape Grim: exploring photochemistry using multi-scale modelling. Atmospheric Chemistry and Physics, 2017, 17, 11707-11726.	1.9	9
104	Assessing and improving cloud-height-based parameterisations of global lightning flash rate, and their impact on lightning-produced NO <sub>2</sub> and tropospheric composition in a chemistry-climate model. Atmospheric Chemistry and Physics, 2021, 21, 7053-7082.	1.9	9
105	Composition of Clean Marine Air and Biogenic Influences on VOCs during the MUMBA Campaign. Atmosphere, 2019, 10, 383.	1.0	8
106	Flexible approach for quantifying average long-term changes and seasonal cycles of tropospheric trace species. Atmospheric Measurement Techniques, 2019, 12, 3383-3394.	1.2	8
107	Investigations on the anthropogenic reversal of the natural ozone gradient between northern and southern midlatitudes. Atmospheric Chemistry and Physics, 2021, 21, 9669-9679.	1.9	8
108	Seasonal Variation of Biogenic and Anthropogenic VOCs in a Semi-Urban Area Near Sydney, Australia. Atmosphere, 2021, 12, 47.	1.0	8

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109	Observational-based assessment of contributions to maximum ozone concentrations in the western United States. Journal of the Air and Waste Management Association, 2022, 72, 434-454.	0.9	7
110	Trace constituents in the Austral stratosphere. Quarterly Journal of the Royal Meteorological Society, 1986, 112, 775-809.	1.0	5
111	Impact of policy-relevant scenarios on ozone in southern England: Influence of chemical mechanism choice. Atmospheric Environment, 2013, 72, 89-96.	1.9	5
112	Representing Organic Compound Oxidation in Chemical Mechanisms for Policy-Relevant Air Quality Models under Background Troposphere Conditions. Atmosphere, 2020, 11, 171.	1.0	5
113	Monte Carlo analyses of the uncertainties in the predictions from global tropospheric ozone models: Tropospheric burdens and seasonal cycles. Atmospheric Environment, 2020, 231, 117545.	1.9	5
114	Intercomparison of the representations of the atmospheric chemistry of pre-industrial methane and ozone in earth system and other global chemistry-transport models. Atmospheric Environment, 2021, 248, 118248.	1.9	5
115	Comprehensive aerosol and gas data set from the Sydney Particle Study. Earth System Science Data, 2019, 11, 1883-1903.	3.7	5
116	Long-term baseline ozone changes in the Western US: A synthesis of analyses. Journal of the Air and Waste Management Association, 2021, 71, 1397-1406.	0.9	4
117	A comparison of two algorithms for estimating carbon dioxide emissions after forest clearing. Environmental Modelling and Software, 1997, 12, 187-195.	1.9	3
118	A study of three trace substances in an urban atmosphere. Atmospheric Environment, 1972, 6, 409-417.	1.1	2
119	Preliminary discussion on some oxidant measurements at vlaardingen, The Netherlands. Atmospheric Environment, 1971, 5, 187.	1.1	1
120	Atmospheric Photooxidants. , 2003, , 73-124.		1
121	Uncertainties in Surface Ozone Measurements in Clean Air. , 1985, , 809-814.		1
122	Improving gas analyses when diluting air samples by using background air. Atmospheric Environment, 1996, 30, 3377-3378.	1.9	0
123	FTIR in the Paddock: Trace gas soil flux measurements using FTIR spectroscopy. , 1998, , .		0
124	RISK FACTORS FOR INCREASED BTEX PERSONAL EXPOSURE IN FOUR AUSTRALIAN CITIES.. Epidemiology, 2003, 14, S22.	1.2	0