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	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
2	Changes to simulated global atmospheric composition resulting from recent revisions to isoprene oxidation chemistry. Atmospheric Environment, 2021, 244, 117914.	1.9	13
3	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
4	Tropospheric ozone in CMIP6 simulations. Atmospheric Chemistry and Physics, 2021, 21, 4187-4218.	1.9	89
5	Assessing and improving cloud-height-based parameterisations of global lightning flash rate, and their impact on lightning-produced NO_{<i>x</i>} and tropospheric composition in a chemistryâ€“climate model. Atmospheric Chemistry and Physics, 2021, 21, 7053-7082.	1.9	9
6	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
7	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
8	Seasonal Variation of Biogenic and Anthropogenic VOCs in a Semi-Urban Area Near Sydney, Australia. Atmosphere, 2021, 12, 47.	1.0	8
9	On the changes in surface ozone over the twenty-first century: sensitivity to changes in surface temperature and chemical mechanisms. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2020, 378, 20190329.	1.6	18
10	Zonal Similarity of Longâ€Term Changes and Seasonal Cycles of Baseline Ozone at Northern Midlatitudes. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2019JD031908.	1.2	27
11	Representing Organic Compound Oxidation in Chemical Mechanisms for Policy-Relevant Air Quality Models under Background Troposphere Conditions. Atmosphere, 2020, 11, 171.	1.0	5
12	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
13	Multi-decadal surface ozone trends at globally distributed remote locations. Elementa, 2020, 8, .	1.1	54
14	Composition of Clean Marine Air and Biogenic Influences on VOCs during the MUMBA Campaign. Atmosphere, 2019, 10, 383.	1.0	8
15	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
16	A Clean Air Plan for Sydney: An Overview of the Special Issue on Air Quality in New South Wales. Atmosphere, 2019, 10, 774.	1.0	29
17	Tropospheric Ozone Assessment Report: Tropospheric ozone from 1877 to 2016, observed levels, trends and uncertainties. Elementa, 2019, 7, .	1.1	103
18	Comprehensive aerosol and gas data set from the Sydney Particle Study. Earth System Science Data, 2019, 11, 1883-1903.	3.7	5

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19	Uncertainties in models of tropospheric ozone based on Monte Carlo analysis: Tropospheric ozone burdens, atmospheric lifetimes and surface distributions. Atmospheric Environment, 2018, 180, 93-102.	1.9	31
20	A revised global ozone dry deposition estimate based on a new two-layer parameterisation for airâ€“sea exchange and the multi-year MACC composition reanalysis. Atmospheric Chemistry and Physics, 2018, 18, 4329-4348.	1.9	31
21	Urban Air Quality in a Coastal City: Wollongong during the MUMBA Campaign. Atmosphere, 2018, 9, 500.	1.0	22
22	Characterizing Atmospheric Transport Pathways to Antarctica and the Remote Southern Ocean Using Radon-222. Frontiers in Earth Science, 2018, 6, .	0.8	37
23	Comparison of VOC measurements made by PTR-MS, adsorbent tubesâ€“GC-FID-MS and DNPH derivatizationâ€“HPLC during the Sydney Particle Study, 2012: aÂcontribution to the assessment of uncertainty in routine atmospheric VOC measurements. Atmospheric Measurement Techniques, 2018, 11, 141-159.	1.2	23
24	Isoprene and monoterpene emissions in south-east Australia: comparison of a multi-layer canopy model with MEGAN and with atmospheric observations. Atmospheric Chemistry and Physics, 2018, 18, 7539-7556.	1.9	29
25	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
26	Atmospheric short-chain-chlorinated paraffins in Melbourne, Australia â€“ first extensive Southern Hemisphere observations. Environmental Chemistry, 2017, 14, 106.	0.7	11
27	An improved parameterisation of ozone dry deposition to the ocean and its impact in a global climateâ€“chemistry model. Atmospheric Chemistry and Physics, 2017, 17, 3749-3767.	1.9	46
28	Biomass burning at Cape Grim: exploring photochemistry using multi-scale modelling. Atmospheric Chemistry and Physics, 2017, 17, 11707-11726.	1.9	9
29	Tropospheric Ozone Assessment Report: Database and metrics data of global surface ozone observations. Elementa, 2017, 5, .	1.1	172
30	The MUMBA campaign: measurements of urban, marine and biogenic air. Earth System Science Data, 2017, 9, 349-362.	3.7	24
31	Seasonal cycles of O 3 in the marine boundary layer: Observation and model simulation comparisons. Journal of Geophysical Research D: Atmospheres, 2016, 121, 538-557.	1.2	29
32	Factors controlling volatile organic compounds in dwellings in Melbourne, Australia. Indoor Air, 2016, 26, 219-230.	2.0	43
33	Interhemispheric differences in seasonal cycles of tropospheric ozone in the marine boundary layer: Observationâ€“model comparisons. Journal of Geophysical Research D: Atmospheres, 2016, 121, 11,075.	1.2	19
34	Current estimates of biogenic emissions from eucalypts uncertain for southeast Australia. Atmospheric Chemistry and Physics, 2016, 16, 6997-7011.	1.9	44
35	Towards a Universal â€œBaselineâ€•Characterisation of Air Masses for High- and Low-Altitude Observing Stations Using Radon-222. Aerosol and Air Quality Research, 2016, 16, 885-899.	0.9	42
36	Gridded global surface ozone metrics for atmospheric chemistry model evaluation. Earth System Science Data, 2016, 8, 41-59.	3.7	34

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37	New directions: Atmospheric chemical mechanisms for the future. Atmospheric Environment, 2015, 122, 609-610.	1.9	19
38	Seasonal in situ observations of glyoxal and methylglyoxal over the temperate oceans of the Southern Hemisphere. Atmospheric Chemistry and Physics, 2015, 15, 223-240.	1.9	39
39	Boundary layer new particle formation over East Antarctic sea ice â€“ possible Hg-driven nucleation?. Atmospheric Chemistry and Physics, 2015, 15, 13339-13364.	1.9	27
40	Biomass burning emissions of trace gases and particles in marine air at Cape Grim, Tasmania. Atmospheric Chemistry and Physics, 2015, 15, 13393-13411.	1.9	27
41	Tropospheric ozone production regions and the intercontinental origins of surface ozone over Europe. Atmospheric Environment, 2015, 112, 216-224.	1.9	47
42	Global distribution and trends of tropospheric ozone: An observation-based review. Elementa, 2014, 2, .	1.1	365
43	Impact of policy-relevant scenarios on ozone in southern England: Influence of chemical mechanism choice. Atmospheric Environment, 2013, 72, 89-96.	1.9	5
44	Recent tropospheric ozone changes â€“ A pattern dominated by slow or no growth. Atmospheric Environment, 2013, 67, 331-351.	1.9	195
45	The global atmospheric budget of ethanol revisited. Atmospheric Chemistry and Physics, 2012, 12, 545-555.	1.9	48
46	Seasonal cycles in short-lived hydrocarbons in baseline air masses arriving at Mace Head, Ireland. Atmospheric Environment, 2012, 62, 89-96.	1.9	13
47	Interference in the PTR-MS measurement of acetonitrile at m/z 42 in polluted urban airâ€”A study using switchable reagent ion PTR-MS. International Journal of Mass Spectrometry, 2012, 319-320, 40-47.	0.7	26
48	Ethanol in the Environment: A Critical Review of Its Roles as a Natural Product, a Biofuel, and a Potential Environmental Pollutant. Critical Reviews in Environmental Science and Technology, 2012, 42, 1735-1779.	6.6	25
49	Indoor air quality in typical temperate zone Australian dwellings. Atmospheric Environment, 2012, 54, 400-407.	1.9	34
50	The effect of proximity to major roads on indoor air quality in typical Australian dwellings. Atmospheric Environment, 2011, 45, 2252-2259.	1.9	36
51	BVOC emissions from mechanical wounding of leaves and branches of Eucalyptus sideroxylon (red) Tj ETQq1 1 0.784314 rgBT /Overlo	1.4	11
52	The Health Impacts of Ethanol Blend Petrol. Energies, 2011, 4, 352-367.	1.6	11
53	Nitrous oxide emissions from a legume pasture and the influences of liming and urine addition. Agriculture, Ecosystems and Environment, 2010, 136, 262-272.	2.5	46
54	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

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55	Ozone in Central England: the impact of 20 years of precursor emission controls in Europe. Environmental Science and Policy, 2010, 13, 195-204.	2.4	57
56	Soilâ€“atmosphere exchange of CH₄, CO, N₂O and NO_x and the effects of landâ€use change in the semiarid Mallee system in Southeastern Australia. Global Change Biology, 2010, 16, 2407-2419.	4.2	21
57	Reactivity Scales as Comparative Tools for Chemical Mechanisms. Journal of the Air and Waste Management Association, 2010, 60, 914-924.	0.9	28
58	Particulate matter at a rural location in southern England during 2006: Model sensitivities to precursor emissions. Atmospheric Environment, 2009, 43, 689-696.	1.9	30
59	Household wood heater usage and indoor leakage of BTEX in Launceston, Australia: A null result. Atmospheric Environment, 2009, 43, 2788-2795.	1.9	10
60	Possible impacts of anthropogenic and natural aerosols on Australian climate: a review. International Journal of Climatology, 2009, 29, 461-479.	1.5	43
61	Spatial variability of nitrous oxide emissions from an Australian irrigated dairy pasture. Plant and Soil, 2008, 309, 77-88.	1.8	69
62	Soilâ€“Atmosphere Trace Gas Exchange in Semiarid and Arid Zones. Journal of Environmental Quality, 2008, 37, 599-607.	1.0	82
63	Volatile organic compounds in marine air at Cape Grim, Australia. Environmental Chemistry, 2007, 4, 178.	0.7	37
64	Risk factors for increased BTEX exposure in four Australian cities. Chemosphere, 2007, 66, 533-541.	4.2	71
65	Known and Unexplored Organic Constituents in the Earth's Atmosphere. Environmental Science & Technology, 2007, 41, 1514-1521.	4.6	1,317
66	Biogenic VOC emissions from fresh leaf mulch and wood chips of Grevillea robusta (Australian Silky) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	1.9	16
67	Precursors to Particles (P2P) at Cape Grim 2006: campaign overview. Environmental Chemistry, 2007, 4, 143.	0.7	17
68	Volatile organic compounds in selected micro-environments. Chemosphere, 2006, 63, 421-429.	4.2	41
69	Long-term changes in tropospheric ozone. Atmospheric Environment, 2006, 40, 3156-3173.	1.9	345
70	Modelling PM10 concentrations and carrying capacity associated with woodheater emissions in Launceston, Tasmania. Atmospheric Environment, 2006, 40, 5543-5557.	1.9	22
71	The contribution from shipping emissions to air quality and acid deposition in Europe. Ambio, 2005, 34, 54-9.	2.8	11
72	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. Journal of the Air and Waste Management Association, 2004, 54, 1299-1311.	0.9	31

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73	Measurements of biomass burning influences in the troposphere over southeast Australia during the SAFARI 2000 dry season campaign. Journal of Geophysical Research, 2003, 108, n/a-n/a.	3.3	28
74	Atmospheric Photooxidants. , 2003, , 73-124.		1
75	RISK FACTORS FOR INCREASED BTEX PERSONAL EXPOSURE IN FOUR AUSTRALIAN CITIES.. Epidemiology, 2003, 14, S22.	1.2	0
76	Headspace solid-phase microextractionâ€"comprehensive two-dimensional gas chromatography of wound induced plant volatile organic compound emissions. Analyst, The, 2002, 127, 1601-1607.	1.7	44
77	The Production of Methanol by Flowering Plants and the Global Cycle of Methanol. Journal of Atmospheric Chemistry, 2002, 43, 195-229.	1.4	345
78	Quantifying uncertainty in estimates of C emissions from above-ground biomass due to historic land-use change to cropping in Australia. Global Change Biology, 2001, 7, 883-902.	4.2	30
79	Mid-latitude marine boundary-layer ozone destruction at visible sunrise observed at Cape Grim, Tasmania, 41Â°S. Geophysical Research Letters, 2000, 27, 3841-3844.	1.5	57
80	Parameters for global ecosystem models. Nature, 1999, 399, 535-535.	13.7	15
81	Emissions of benzene, toluene, xylenes and 1,3-butadiene from a representative portion of the Australian car fleet. Atmospheric Environment, 1998, 32, 2693-2704.	1.9	30
82	Evaporative emissions of 1,3-butadiene from petrol-fuelled motor vehicles. Atmospheric Environment, 1998, 32, 2685-2692.	1.9	30
83	Fundamental ozone photochemistry in the remote marine boundary layer the soapex experiment, measurement and theory. Atmospheric Environment, 1998, 32, 3647-3664.	1.9	85
84	Trends of ozone in the troposphere. Geophysical Research Letters, 1998, 25, 139-142.	1.5	156
85	Emissions of volatile organic compounds (primarily oxygenated species) from pasture. Journal of Geophysical Research, 1998, 103, 10605-10619.	3.3	223
86	FTIR in the Paddock: Trace gas soil flux measurements using FTIR spectroscopy. , 1998, , .		0
87	Relationships between ozone photolysis rates and peroxy radical concentrations in clean marine air over the Southern Ocean. Journal of Geophysical Research, 1997, 102, 12805-12817.	3.3	67
88	Comparisons of field measurements of carbon dioxide and nitrous oxide fluxes with model simulations for a legume pasture in southeast Australia. Journal of Geophysical Research, 1997, 102, 28013-28024.	3.3	29
89	A study of peroxy radicals and ozone photochemistry at coastal sites in the northern and southern hemispheres. Journal of Geophysical Research, 1997, 102, 25417-25427.	3.3	81
90	Predictions of plume dispersion in complex terrain: Eulerian versus Lagrangian models. Atmospheric Environment, 1997, 31, 947-958.	1.9	27

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91	Emission of 1,3-butadiene from petrol-driven motor vehicles. Atmospheric Environment, 1997, 31, 1157-1165.	1.9	32
92	A comparison of two algorithms for estimating carbon dioxide emissions after forest clearing. Environmental Modelling and Software, 1997, 12, 187-195.	1.9	3
93	Improving gas analyses when diluting air samples by using background air. Atmospheric Environment, 1996, 30, 3377-3378.	1.9	0
94	The annual cycle of peroxides and ozone in marine air at Cape Grim, Tasmania. Journal of Atmospheric Chemistry, 1996, 23, 221-252.	1.4	67
95	Evidence for photochemical control of ozone concentrations in unpolluted marine air. Nature, 1992, 360, 446-449.	13.7	119
96	The fate of urea nitrogen applied in a foliar spray to wheat at heading. Fertilizer Research, 1991, 28, 129-138.	0.5	37
97	Water vapor interference in the measurement of ozone in ambient air by ultraviolet absorption. Review of Scientific Instruments, 1991, 62, 223-228.	0.6	19
98	Effect of additions of nitrogen and sulfur to irrigated wheat at heading on grain yield, composition and milling and baking quality. Australian Journal of Experimental Agriculture, 1990, 30, 95.	1.0	28
99	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
100	Fate of urea nitrogen applied to irrigated wheat at heading. Australian Journal of Agricultural Research, 1989, 40, 951.	1.5	22
101	Fate of urea nitrogen applied in solution in furrows to sunflowers growing on a red-brown earth: transformations, losses and plant uptake. Australian Journal of Agricultural Research, 1988, 39, 793.	1.5	16
102	Emission of nitrogen oxides (NO x) from a flooded soil fertilized with urea: Relation to other nitrogen loss processes. Journal of Atmospheric Chemistry, 1987, 5, 343-365.	1.4	48
103	Trace constituents in the Austral stratosphere. Quarterly Journal of the Royal Meteorological Society, 1986, 112, 775-809.	1.0	5
104	Surface ozone at rural sites in the latrobe valley and Cape Grim, Australia. Atmospheric Environment, 1986, 20, 2403-2422.	1.1	28
105	The conversion of N₂O₅ to HNO₃ at high latitudes in winter. Geophysical Research Letters, 1985, 12, 825-828.	1.5	35
106	Uncertainties in Surface Ozone Measurements in Clean Air. , 1985, , 809-814.		1
107	Atmospheric effects from post-nuclear fires. Climatic Change, 1984, 6, 323.	1.7	77
108	Production of Nitric Oxide in Loam Under Aerobic and Anaerobic Conditions. Applied and Environmental Microbiology, 1984, 47, 1284-1289.	1.4	81

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109	Destruction of ozone at the earth's surface. Quarterly Journal of the Royal Meteorological Society, 1980, 106, 599-620.	1.0	276
110	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
111	Sulphur uptake from the atmosphere by forest and farmland. Nature, 1979, 280, 49-50.	13.7	29
112	Loss of fixed nitrogen from soils by nitric oxide exhalation. Nature, 1978, 275, 734-735.	13.7	202
113	Man-Made Carbon Tetrachloride in the Atmosphere. Science, 1976, 193, 573-576.	6.0	55
114	Gas Transfer Near the Earth's Surface. Advances in Geophysics, 1975, , 329-339.	1.1	12
115	Emission of oxides of nitrogen (NOx) and ammonia from the earth's surface. Tellus, 1975, 27, 67-70.	0.4	15
116	A study of three trace substances in an urban atmosphere. Atmospheric Environment, 1972, 6, 409-417.	1.1	2
117	Ozone fluxes over snow surfaces. Journal of Geophysical Research, 1972, 77, 3946-3949.	3.3	26
118	Production of carbon monoxide in rain water. Journal of Geophysical Research, 1972, 77, 7129-7132.	3.3	11
119	Surface ozone observations at Aspendale, Victoria, 1964â€“1970. Atmospheric Environment, 1971, 5, 15-25.	1.1	21
120	Preliminary discussion on some oxidant measurements at vlaardingen, The Netherlands. Atmospheric Environment, 1971, 5, 187.	1.1	1
121	Ozone profiles and ozone fluxes in the atmospheric surface layer. Quarterly Journal of the Royal Meteorological Society, 1971, 97, 18-29.	1.0	82
122	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
123	Some Measurements of Ozone Variation and Destruction in the Atmospheric Surface Layer. Nature, 1968, 218, 456-457.	13.7	60
124	The Global Atmosphere Watch reactive gases measurement network. Elementa, 0, 3, .	1.1	63