

Andrew Klekociuk

List of Publications by Year in descending order

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97
papers

2,141
citations

257450

24
h-index

289244

40
g-index

124
all docs

124
docs citations

124
times ranked

2429
citing authors

#	ARTICLE	IF	CITATIONS
1	The Deep Propagating Gravity Wave Experiment (DEEPWAVE): An Airborne and Ground-Based Exploration of Gravity Wave Propagation and Effects from Their Sources throughout the Lower and Middle Atmosphere. <i>Bulletin of the American Meteorological Society</i> , 2016, 97, 425-453.	3.3	148
2	Validation of ozone measurements from the Atmospheric Chemistry Experiment (ACE). <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 287-343.	4.9	134
3	Observations of Clouds, Aerosols, Precipitation, and Surface Radiation over the Southern Ocean: An Overview of CAPRICORN, MARCUS, MICRE, and SOCRATES. <i>Bulletin of the American Meteorological Society</i> , 2021, 102, E894-E928.	3.3	103
4	Environmental effects of stratospheric ozone depletion, UV radiation, and interactions with climate change: UNEP Environmental Effects Assessment Panel, Update 2020. <i>Photochemical and Photobiological Sciences</i> , 2021, 20, 1-67.	2.9	93
5	The 2019/2020 summer of Antarctic heatwaves. <i>Global Change Biology</i> , 2020, 26, 3178-3180.	9.5	71
6	Meteoritic dust from the atmospheric disintegration of a large meteoroid. <i>Nature</i> , 2005, 436, 1132-1135.	27.8	68
7	Validation of the Atmospheric Chemistry Experiment (ACE) version 2.2 temperature using ground-based and space-borne measurements. <i>Atmospheric Chemistry and Physics</i> , 2008, 8, 35-62.	4.9	68
8	Structure and long-term change in the zonal asymmetry in Antarctic total ozone during spring. <i>Annales Geophysicae</i> , 2007, 25, 361-374.	1.6	57
9	Gravity wave and orographic wave activity observed around the Antarctic and Arctic stratospheric vortices by the COSMIC GPS-RO satellite constellation. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	52
10	Rayleigh lidar observations of gravity wave activity in the winter upper stratosphere and lower mesosphere above Davis, Antarctica (69°S, 78°E). <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	50
11	Radiosonde observations of gravity waves in the lower stratosphere over Davis, Antarctica. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 11,973.	3.3	49
12	Unexpectedly high ultrafine aerosol concentrations above East Antarctic sea ice. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 2185-2206.	4.9	43
13	Spacelab-2 Plasma Depletion Experiments for Ionospheric and Radio Astronomical Studies. <i>Science</i> , 1987, 238, 1260-1264.	12.6	41
14	No robust evidence of future changes in major stratospheric sudden warmings: a multi-model assessment from CCMI. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 11277-11287.	4.9	41
15	Environmental effects of stratospheric ozone depletion, UV radiation, and interactions with climate change: UNEP Environmental Effects Assessment Panel, Update 2021. <i>Photochemical and Photobiological Sciences</i> , 2022, 21, 275-301.	2.9	40
16	The effect of orographic gravity waves on Antarctic polar stratospheric cloud occurrence and composition. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	37
17	Characteristics of the wind, temperature and PMSE field above Davis, Antarctica. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2006, 68, 418-435.	1.6	33
18	Monthly Diurnal Global Atmospheric Circuit Estimates Derived from Vostok Electric Field Measurements Adjusted for Local Meteorological and Solar Wind Influences. <i>Journals of the Atmospheric Sciences</i> , 2012, 69, 2061-2082.	1.7	33

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19	Quantifying the role of orographic gravity waves on polar stratospheric cloud occurrence in the Antarctic and the Arctic. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 11,493.	3.3	33
20	Daily Observations of Three Period Jumps of the Vela Pulsar. <i>Australian Journal of Physics</i> , 1987, 40, 725.	0.6	33
21	Observing the Impact of Calbuco Volcanic Aerosols on South Polar Ozone Depletion in 2015. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 11,862.	3.3	32
22	Evaluation of boundary layer cloud forecasts over the Southern Ocean in a limited-area numerical weather prediction system using <i>in situ</i> , spaceborne and ground-based observations. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2015, 141, 2259-2276.	2.7	29
23	Eighteen-year record of circum-Antarctic landfast-sea-ice distribution allows detailed baseline characterisation and reveals trends and variability. <i>Cryosphere</i> , 2021, 15, 5061-5077.	3.9	28
24	Boundary layer new particle formation over East Antarctic sea ice – possible Hg-driven nucleation?. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 13339-13364.	4.9	27
25	First complete season of PMSE observations above Davis, Antarctica, and their relation to winds and temperatures. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	26
26	Evaluation of the ACCESS – chemistry – climate model for the Southern Hemisphere. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 2401-2415.	4.9	26
27	First Southern Hemisphere common-volume measurements of PMC and PMSE. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	25
28	Ozone profiles in the high-latitude stratosphere and lower mesosphere measured by the Improved Limb Atmospheric Spectrometer (ILAS)-II: Comparison with other satellite sensors and ozonesondes. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	24
29	Stratospheric ozone intrusion events and their impacts on tropospheric ozone in the Southern Hemisphere. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 10269-10290.	4.9	24
30	A machine learning examination of hydroxyl radical differences among model simulations for CCMI-1. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 1341-1361.	4.9	24
31	Beryllium-10 transport to Antarctica: Results from seasonally resolved observations and modeling. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a.	3.3	21
32	Long-term trends in Antarctic winter hydroxyl temperatures. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	20
33	First year of Rayleigh lidar measurements of middle atmosphere temperatures above davis, Antarctica. <i>Advances in Space Research</i> , 2003, 32, 771-776.	2.6	19
34	Small scale structures of NLC observed by lidar at 69°N/69°S and their possible relation to gravity waves. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2013, 104, 244-252.	1.6	19
35	Winter 2018 major sudden stratospheric warming impact on midlatitude mesosphere from microwave radiometer measurements. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 10303-10317.	4.9	19
36	Determining rotational temperatures from the OH(8-3) band, and a comparison with OH(6-2) rotational temperatures at Davis, Antarctica. <i>Annales Geophysicae</i> , 2004, 22, 1549-1561.	1.6	18

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37	A study of the relationship between stratospheric gravity waves and polar mesospheric clouds at Davis Antarctica. Journal of Geophysical Research, 2008, 113, .	3.3	18
38	Total ozone and tropopause zonal asymmetry during the Antarctic spring. Journal of Geophysical Research, 2008, 113, .	3.3	18
39	Quasi-stationary planetary waves in late winter Antarctic stratosphere temperature as a possible indicator of spring total ozone. Atmospheric Chemistry and Physics, 2012, 12, 2865-2879.	4.9	18
40	Mixed-Phase Clouds and Precipitation in Southern Ocean Cyclones and Cloud Systems Observed Poleward of 64°S by Ship-Based Cloud Radar and Lidar. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2020JD033626.	3.3	18
41	Inter-hemispheric asymmetry in polar mesosphere summer echoes and temperature at 69° latitude. Journal of Atmospheric and Solar-Terrestrial Physics, 2009, 71, 464-469.	1.6	17
42	Low latitude 2-day planetary wave impact on austral polar mesopause temperatures: revealed by a January diminution in PMSE above Davis, Antarctica. Geophysical Research Letters, 2009, 36, .	4.0	17
43	First observations of Southern Hemisphere polar mesosphere winter echoes including conjugate occurrences at ~1/469°S latitude. Geophysical Research Letters, 2011, 38, n/a-n/a.	4.0	17
44	High resolution VHF radar measurements of tropopause structure and variability at Davis, Antarctica (69° S, 78° E). Atmospheric Chemistry and Physics, 2013, 13, 3121-3132.	4.9	17
45	Early indications of anomalous behaviour in the 2019 spring ozone hole over Antarctica. International Journal of Remote Sensing, 2020, 41, 7530-7540.	2.9	17
46	The Antarctic ozone hole during 2010. Australian Meteorological Magazine, 2011, 61, 253-267.	0.4	17
47	Antarctic polar plateau vertical electric field variations across heliocentric current sheet crossings. Journal of Atmospheric and Solar-Terrestrial Physics, 2006, 68, 639-654.	1.6	16
48	A new height for the summer mesopause: Antarctica, December 2007. Geophysical Research Letters, 2008, 35, .	4.0	16
49	Evolution of the eastward shift in the quasi-stationary minimum of the Antarctic total ozone column. Atmospheric Chemistry and Physics, 2017, 17, 1741-1758.	4.9	15
50	Planetary wave and gravity wave influence on the occurrence of polar stratospheric clouds over Davis Station, Antarctica, seen in lidar and radiosonde observations. Journal of Geophysical Research, 2006, 111, .	3.3	14
51	A comparison of hydroxyl rotational temperatures from Davis (69°S, 78°E) with sodium lidar temperatures from Syowa (69°S, 39°E). Geophysical Research Letters, 2003, 30, .	4.0	13
52	The Antarctic ozone hole during 2008 and 2009. Australian Meteorological Magazine, 2011, 61, 77-90.	0.4	13
53	Interstation correlation of high-latitude lower-stratosphere gravity wave activity: Evidence for planetary wave modulation of gravity waves over Antarctica. Journal of Geophysical Research, 2004, 109, .	3.3	12
54	The Antarctic ozone hole during 2018 and 2019. Journal of Southern Hemisphere Earth Systems Science, 2021, 71, 66-91.	1.8	12

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55	The Antarctic ozone hole during 2020. Journal of Southern Hemisphere Earth Systems Science, 2022, 72, 19-37.	1.8	11
56	Radioastronomy through an artificial ionospheric window: Spacelab 2 observations. Advances in Space Research, 1988, 8, 63-66.	2.6	10
57	Detection of Aerosols in Antarctica From Long-Range Transport of the 2009 Australian Wildfires. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2020JD032542.	3.3	10
58	Analysis of 24 years of mesopause region OH rotational temperature observations at Davis, Antarctica – Part 1: long-term trends. Atmospheric Chemistry and Physics, 2020, 20, 6379-6394.	4.9	10
59	No Robust Evidence of Future Changes in Major Stratospheric Sudden Warmings: A Multi-model Assessment from CCMI. Atmospheric Chemistry and Physics, 2018, 18, 11277-11287.	4.9	10
60	Experimental evidence of a stratospheric circulation influence on mesospheric temperatures and ice-particles during the 2010–2011 austral summer at 69°S. Journal of Atmospheric and Solar-Terrestrial Physics, 2012, 89, 54-61.	1.6	9
61	Seasonal MLT-region nightglow intensities, temperatures, and emission heights at a Southern Hemisphere midlatitude site. Annales Geophysicae, 2017, 35, 567-582.	1.6	9
62	The state of the atmosphere in the 2016 southern Kerguelen Axis campaign region. Deep-Sea Research Part II: Topical Studies in Oceanography, 2020, 174, .	1.4	9
63	Comparison of Major Sudden Stratospheric Warming Impacts on the Mid-Latitude Mesosphere Based on Local Microwave Radiometer CO Observations in 2018 and 2019. Remote Sensing, 2020, 12, 3950.	4.0	8
64	Tropical and mid-latitude forcing of continental Antarctic temperatures. Cryosphere, 2015, 9, 2405-2415.	3.9	7
65	The Antarctic ozone hole during 2011. Australian Meteorological Magazine, 2014, 64, 293-311.	0.4	7
66	Seasonal climate summary southern hemisphere (spring 2014): El Niño continues to try to break through, and Australia has its warmest spring on record (again!). Australian Meteorological Magazine, 2015, 65, 267-292.	0.4	7
67	Validation of reanalysis Southern Ocean atmosphere trends using sea ice data. Atmospheric Chemistry and Physics, 2020, 20, 14757-14768.	4.9	7
68	Simultaneous observations of Polar Mesosphere Summer Echoes at two different latitudes in Antarctica. Annales Geophysicae, 2008, 26, 3783-3792.	1.6	6
69	Low Ozone Over Southern Australia in August 2011 and its Impact on Solar Ultraviolet Radiation Levels. Photochemistry and Photobiology, 2013, 89, 984-994.	2.5	6
70	Trends in Antarctic ozone hole metrics 2001–17. Journal of Southern Hemisphere Earth Systems Science, 2019, 69, 52.	1.8	6
71	Australian Lidar Measurements of Aerosol Layers Associated with the 2015 Calbuco Eruption. Atmosphere, 2020, 11, 124.	2.3	6
72	Interactive effects of body mass changes and species-specific morphology on flight behavior of chick-rearing Antarctic fulmarine petrels under diurnal wind patterns. Ecology and Evolution, 2021, 11, 4972-4991.	1.9	6

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73	El Niño–Southern Oscillation signal in a new East Antarctic ice core, Mount Brown South. <i>Climate of the Past</i> , 2021, 17, 1795-1818.	3.4	6
74	Troposphere and stratosphere influence on tropopause in the polar regions during winter and spring. <i>International Journal of Remote Sensing</i> , 2011, 32, 3153-3164.	2.9	5
75	Evolution of Antarctic ozone in September–December predicted by CCMVal-2 model simulations for the 21st century. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 4413-4427.	4.9	5
76	The Antarctic ozone hole during 2017. <i>Journal of Southern Hemisphere Earth Systems Science</i> , 2019, 69, 29.	1.8	5
77	Measurements of Cloud Radiative Effect across the Southern Ocean (43° S–79° S, 63° E–158° W). <i>Atmosphere</i> , 2020, 11, 949.	2.3	5
78	Planetary Wave Spectrum in the Stratosphere–Mesosphere during Sudden Stratospheric Warming 2018. <i>Remote Sensing</i> , 2021, 13, 1190.	4.0	5
79	Influence of planetary waves on total ozone column distribution in northern and southern high latitudes. <i>International Journal of Remote Sensing</i> , 2011, 32, 3179-3186.	2.9	4
80	Trends and Variability in Total Ozone from a Mid-Latitude Southern Hemisphere Site: The Melbourne Dobson Record 1978–2012. <i>Atmosphere - Ocean</i> , 2015, 53, 58-65.	1.6	4
81	Analysis of 24 years of mesopause region OH rotational temperature observations at Davis, Antarctica – Part 2: Evidence of a quasi-quadrennial oscillation (QOO) in the polar mesosphere. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 8691-8708.	4.9	4
82	Investigation of the Vertical Influence of the 11-Year Solar Cycle on Ozone Using SBUV and Antarctic Ground-Based Measurements and CMIP6 Forcing Data. <i>Atmosphere</i> , 2020, 11, 873.	2.3	4
83	Zonal Asymmetry of the Stratopause in the 2019/2020 Arctic Winter. <i>Remote Sensing</i> , 2022, 14, 1496.	4.0	4
84	Rossby Waves in Total Ozone over the Arctic in 2000–2021. <i>Remote Sensing</i> , 2022, 14, 2192.	4.0	4
85	Australian Antarctic lidar facility. , 1994, , .		3
86	The Antarctic ozone hole during 2015 and 2016. <i>Journal of Southern Hemisphere Earth Systems Science</i> , 2019, 69, 16.	1.8	3
87	The Antarctic ozone hole during 2012. <i>Australian Meteorological Magazine</i> , 2014, 64, 313-330.	0.4	3
88	Detection of supercooled liquid water containing clouds with ceilometers: development and evaluation of deterministic and data-driven retrievals. <i>Atmospheric Measurement Techniques</i> , 2022, 15, 3663-3681.	3.1	3
89	The Antarctic ozone hole during 2014. <i>Journal of Southern Hemisphere Earth Systems Science</i> , 2019, 69, 1.	1.8	2
90	Constraining ice water content of thin Antarctic cirrus clouds using ground-based lidar and satellite data. <i>Journals of the Atmospheric Sciences</i> , 2021, , .	1.7	2

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91	Mid-Latitude Mesospheric Zonal Wave 1 and Wave 2 in Recent Boreal Winters. Remote Sensing, 2021, 13, 3749.	4.0	2
92	Parameters of the O(1S) excitation process deduced from photometer measurements of pulsating aurora. Journal of Atmospheric and Solar-Terrestrial Physics, 1995, 57, 1799-1814.	0.9	1
93	Automatically guiding a telescope to a laser beam on a biaxial antarctic light detection and ranging system. Optical Engineering, 2007, 46, 116001.	1.0	1
94	The Antarctic ozone hole during 2013. Australian Meteorological Magazine, 2015, 65, 247-266.	0.4	1
95	Preconditions for the ozone hole decrease in 2017. Ukrainian Journal of Remote Sensing, 2018, , 53-58.	0.5	1
96	The Annual Cycle in Mid-Latitude Stratospheric and Mesospheric Ozone Associated with Quasi-Stationary Wave Structure by the MLS Data 2011â€“2020. Remote Sensing, 2022, 14, 2309.	4.0	1
97	Future changes in stratospheric quasi-stationary wave-1 in the extratropical southern hemisphere spring and summer as simulated by ACCESS-CCM. Journal of Southern Hemisphere Earth Systems Science, 2021, 71, 181.	1.8	0