Damian J Murphy

List of Publications by Year
in descending order

64 papers	1,682 citations	318942 23 h-index	355658 38 g-index
67 all docs	67 docs citations	67 times ranked	1300 citing authors

#	Article	IF	Citations
1	Mesosphere and Lower Thermosphere Winds and Tidal Variations During the 2019 Antarctic Sudden Stratospheric Warming. Journal of Geophysical Research: Space Physics, 2022, 127, .	0.8	8
2	Altimetric observation of wave attenuation through the Antarctic marginal ice zone using ICESat-2. Cryosphere, 2022, 16, 2325-2353.	1.5	10
3	Seasonal evolution of winds, atmospheric tides, and Reynolds stress components in the Southern Hemisphere mesosphereâ€"lower thermosphere in 2019. Annales Geophysicae, 2021, 39, 1-29.	0.6	15
4	First Observations of Antarctic Mesospheric Tidal Wind Responses to Recurrent Geomagnetic Activity. Geophysical Research Letters, 2021, 48, e2020GL089957.	1.5	10
5	Climatology of Interhemispheric Mesopause Temperatures Using the Highâ€Latitude and Middleâ€Latitude Meteor Radars. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2020JD034301.	1.2	4
6	The Observation and SDâ€WACCM Simulation of Planetary Wave Activity in the Middle Atmosphere During the 2019 Southern Hemispheric Sudden Stratospheric Warming. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA029094.	0.8	15
7	Interhemispheric differences of mesosphereâ€"lower thermosphere winds and tides investigated from three whole-atmosphere models and meteor radar observations. Atmospheric Chemistry and Physics, 2021, 21, 13855-13902.	1.9	24
8	Investigating an Unusually Large 28â€Day Oscillation in Mesospheric Temperature Over Antarctica Using Groundâ€Based and Satellite Measurements. Journal of Geophysical Research D: Atmospheres, 2019, 124, 8576-8593.	1.2	7
9	Using Project Loon Superpressure Balloon Observations to Investigate the Inertial Peak in the Intrinsic Wind Spectrum in the Midlatitude Stratosphere. Journal of Geophysical Research D: Atmospheres, 2019, 124, 8594-8604.	1.2	7
10	Climatology of the mesopause relative density using a global distribution of meteor radars. Atmospheric Chemistry and Physics, 2019, 19, 7567-7581.	1.9	14
11	Trends and Variability in Vertical Winds in the Southern Hemisphere Summer Polar Mesosphere and Lower Thermosphere. Journal of Geophysical Research D: Atmospheres, 2019, 124, 11070-11085.	1.2	8
12	Structure, Variability, and Meanâ€Flow Interactions of the January 2015 Quasiâ€2â€Day Wave at Middle and High Southern Latitudes. Journal of Geophysical Research D: Atmospheres, 2019, 124, 5981-6008.	1.2	7
13	Connection between the length of day and wind measurements in the mesosphere and lower thermosphere at mid- and high latitudes. Annales Geophysicae, 2019, 37, 1-14.	0.6	2
14	Reply to Comment by Tsurutani et al. on â€œFirst Observation of Mesosphere Response to the Solar Wind Highâ€Speed Streamsâ€. Journal of Geophysical Research: Space Physics, 2019, 124, 8169-8171.	0.8	1
15	Highâ€and Middleâ€Latitude Neutral Mesospheric Density Response to Geomagnetic Storms. Geophysical Research Letters, 2018, 45, 436-444.	1.5	23
16	Mesospheric radar wind comparisons at high and middle southern latitudes. Earth, Planets and Space, 2018, 70, .	0.9	15
17	High-Altitude (0â€"100 km) Global Atmospheric Reanalysis System: Description and Application to the 2014 Austral Winter of the Deep Propagating Gravity Wave Experiment (DEEPWAVE). Monthly Weather Review, 2018, 146, 2639-2666.	0.5	47
18	Largeâ€Amplitude Mountain Waves in the Mesosphere Accompanying Weak Crossâ€Mountain Flow During DEEPWAVE Research Flight RF22. Journal of Geophysical Research D: Atmospheres, 2018, 123, 9992.	1.2	26

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19	Momentum Flux Spectra of a Mountain Wave Event Over New Zealand. Journal of Geophysical Research D: Atmospheres, 2018, 123, 9980-9991.	1.2	15
20	Using polar mesosphere summer echoes and stratospheric/mesospheric winds to explain summer mesopause jumps in Antarctica. Journal of Atmospheric and Solar-Terrestrial Physics, 2017, 162, 106-115.	0.6	12
21	Characteristics of mesospheric gravity waves over Antarctica observed by Antarctic Gravity Wave Instrument Network imagers using 3â€D spectral analyses. Journal of Geophysical Research D: Atmospheres, 2017, 122, 8969-8981.	1.2	16
22	Response of neutral mesospheric density to geomagnetic forcing. Geophysical Research Letters, 2017, 44, 8647-8655.	1.5	23
23	Polar Thermospheric Winds and Temperature Observed by Fabryâ€Perot Interferometer at Jang Bogo Station, Antarctica. Journal of Geophysical Research: Space Physics, 2017, 122, 9685-9695.	0.8	11
24	Climatology of semidiurnal lunar and solar tides at middle and high latitudes: Interhemispheric comparison. Journal of Geophysical Research: Space Physics, 2017, 122, 7750-7760.	0.8	31
25	First observation of mesosphere response to the solar wind highâ€speed streams. Journal of Geophysical Research: Space Physics, 2017, 122, 9080-9088.	0.8	20
26	Observations and fineâ€scale model simulations of gravity waves over Davis, East Antarctica (69Â°S,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	1.2	20
27	Modification of the Gravity Wave Parameterization in the Whole Atmosphere Community Climate Model: Motivation and Results. Journals of the Atmospheric Sciences, 2017, 74, 275-291.	0.6	180
28	A Climatological Study of Shortâ€Period Gravity Waves and Ripples at Davis Station, Antarctica (68Â°S,) Tj ETQq0 0 0 rgBT /Overlock 10 Research D: Atmospheres, 2017, 122, 11,388.	1.2	9
29	Gravity wave momentum flux in the mesosphere measured by VHF radar at Davis, Antarctica. Journal of Geophysical Research D: Atmospheres, 2016, 121, 12,723.	1.2	6
30	Tides in the mesopause region over Antarctica: Comparison of whole atmosphere model simulations with groundâ€based observations. Journal of Geophysical Research D: Atmospheres, 2016, 121, 1156-1169.	1.2	4
31	Southern Hemisphere Extratropical Gravity Wave Sources and Intermittency Revealed by a Middle-Atmosphere General Circulation Model. Journals of the Atmospheric Sciences, 2016, 73, 1335-1349.	0.6	28
32	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. Bulletin of the American Meteorological Society, 2016, 97, 425-453.	1.7	148
33	A method for estimating the height of a mesospheric density level using meteor radar. Geophysical Research Letters, 2015, 42, 6106-6111.	1.5	21
34	Momentum flux estimates accompanying multiscale gravity waves over Mount Cook, New Zealand, on 13 July 2014 during the DEEPWAVE campaign. Journal of Geophysical Research D: Atmospheres, 2015, 120, 9323-9337.	1.2	45
35	The Seasonal Cycle of Lower-Tropospheric Gravity Wave Activity at Davis, Antarctica (69Â°S, 78Â°E). Journals of the Atmospheric Sciences, 2015, 72, 1010-1021.	0.6	12
36	The effects of deionization processes on meteor radar diffusion coefficients below 90 km. Journal of Geophysical Research D: Atmospheres, 2014, 119, 10027-10043.	1.2	27

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37	Radiosonde observations of gravity waves in the lower stratosphere over Davis, Antarctica. Journal of Geophysical Research D: Atmospheres, 2014, 119, 11,973.	1.2	49
38	High resolution VHF radar measurements of tropopause structure and variability at Davis, Antarctica (69Â° S, 78Â° E). Atmospheric Chemistry and Physics, 2013, 13, 3121-3132.	1.9	17
39	Interhemispheric dynamical coupling to the southern mesosphere and lower thermosphere. Journal of Geophysical Research, 2012, 117, .	3.3	17
40	Meteor shower velocity estimates from single-station meteor radar: accuracy and precision. Monthly Notices of the Royal Astronomical Society, 2012, 425, 1473-1478.	1.6	5
41	Rayleigh lidar observations of gravity wave activity in the winter upper stratosphere and lower mesosphere above Davis, Antarctica (69Â°S, 78Â°E). Journal of Geophysical Research, 2011, 116, .	3.3	50
42	A southern hemisphere survey of meteor shower radiants and associated stream orbits using single station radar observations. Monthly Notices of the Royal Astronomical Society, 2009, 398, 350-356.	1.6	21
43	Inter-hemispheric asymmetry in polar mesosphere summer echoes and temperature at 69Â° latitude. Journal of Atmospheric and Solar-Terrestrial Physics, 2009, 71, 464-469.	0.6	17
44	Source regions for Antarctic MLT nonâ€migrating semidiurnal tides. Geophysical Research Letters, 2009, 36, .	1.5	28
45	Antarctic meteor observations using the Davis MST and meteor radars. Advances in Space Research, 2008, 42, 143-154.	1.2	32
46	The polar mesosphere. Physics Education, 2008, 43, 366-374.	0.3	1
47	Similarities and differences in polar mesosphere summer echoes observed in the Arctic and Antarctica. Annales Geophysicae, 2008, 26, 2795-2806.	0.6	35
48	First complete season of PMSE observations above Davis, Antarctica, and their relation to winds and temperatures. Geophysical Research Letters, 2007, 34, .	1.5	26
49	Planetary waves and intraseasonal oscillations at Davis, Antarctica, from undersampled time series. Journal of Geophysical Research, 2007, 112, .	3.3	4
50	Polar mesosphere and lower thermosphere dynamics: 1. Mean wind and gravity wave climatologies. Journal of Geophysical Research, 2007, 112, .	3.3	50
51	Polar mesosphere and lower thermosphere dynamics: 2. Response to sudden stratospheric warmings. Journal of Geophysical Research, 2007, 112, .	3.3	31
52	Observation of polar mesosphere summer echoes with calibrated VHF radars at 69Â° in the Northern and Southern hemispheres. Geophysical Research Letters, 2007, 34, .	1.5	26
53	All-sky interferometric meteor radar meteoroid speed estimation using the Fresnel transform. Annales Geophysicae, 2007, 25, 385-398.	0.6	18
54	Meteor observations using the Davis mesosphere-stratosphere-troposphere radar. Journal of Geophysical Research, 2006, 111, .	3.3	17

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55	Antarctic mesospheric temperature estimation using the Davis mesosphere-stratosphere-troposphere radar. Journal of Geophysical Research, 2006, 111, .	3.3	43
56	A climatology of tides in the Antarctic mesosphere and lower thermosphere. Journal of Geophysical Research, 2006, 111, .	3.3	72
57	The large-scale dynamics of the mesosphereâ€“lower thermosphere during the Southern Hemisphere stratospheric warming of 2002. Geophysical Research Letters, 2004, 31, .	1.5	75
58	First polar mesosphere summer echoes observed at Davis, Antarctica (68.6Â°S). Geophysical Research Letters, 2004, 31, .	1.5	36
59	Further evidence of hemispheric differences in the MLT mean wind climatology: Simultaneous MF radar observations at Poker Flat (65Â°N, 147Â°W) and Davis (69Â°S, 78Â°E). Geophysical Research Letters, 2003, 30, .	1.5	12
60	Observations of a nonmigrating component of the semidiurnal tide over Antarctica. Journal of Geophysical Research, 2003, 108, .	3.3	40
61	A comparison of mean winds and gravity wave activity in the northern and southern polar MLT. Geophysical Research Letters, 2001, 28, 1475-1478.	1.5	39
62	Amplitude enhancements in Antarctic MF radar echoes. Journal of Geophysical Research, 2000, 105, 26683-26693.	3.3	10
63	Mesospheric momentum fluxes over Adelaide during the 2-day wave: Results and interpretation. Journal of Geophysical Research, 1998, 103, 28627-28636.	3.3	15
64	Estimates of momentum flux in the mesosphere and lower thermosphere over Adelaide, Australia, from March 1985 to February 1986. Journal of Geophysical Research, 1993, 98, 18617-18638.	3.3	22