

Nicholas J Mitchell

List of Publications by Year in descending order

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55
papers

1,900
citations

218592

26
h-index

265120

42
g-index

58
all docs

58
docs citations

58
times ranked

1105
citing authors

#	ARTICLE	IF	CITATIONS
1	Planetary waves in coupling the stratosphere and mesosphere during the major stratospheric warming in 2003/2004. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	109
2	A study of tidal and planetary wave periodicities present in midlatitude sporadic layers. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	101
3	Mean winds and tides in the Arctic mesosphere and lower thermosphere. <i>Journal of Geophysical Research</i> , 2002, 107, SIA 2-1.	3.3	93
4	Two-day wave coupling of the low-latitude atmosphere-ionosphere system. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	84
5	The southern stratospheric gravity wave hot spot: individual waves and their momentum fluxes measured by COSMIC GPS-RO. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 7797-7818.	1.9	82
6	Zonal wave numbers of the summertime 2 day planetary wave observed in the mesosphere by EOS Aura Microwave Limb Sounder. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	81
7	Evidence of a role for modulated atmospheric tides in the dependence of sporadic layers on planetary waves. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	80
8	Mesopause dynamics from the Scandinavian triangle of radars within the PSMOS-DATAR Project. <i>Annales Geophysicae</i> , 2004, 22, 367-386.	0.6	77
9	Planetary waves and variability of the semidiurnal tide in the mesosphere and lower thermosphere over Esrange (68°N, 21°E) during winter. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	62
10	Combining AIRS and MLS observations for three-dimensional gravity wave measurement. <i>Geophysical Research Letters</i> , 2016, 43, 884-893.	1.5	58
11	Exploring gravity wave characteristics in 3-D using a novel S-transform technique: AIRS/Aqua measurements over the Southern Andes and Drake Passage. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 8553-8575.	1.9	58
12	The diurnal and semidiurnal tides over Ascension Island (8° S, 14° W) and their interaction with the stratospheric quasi-biennial oscillation: studies with meteor radar, eCMAM and WACCM. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 9543-9564.	1.9	55
13	The 8-hour tide in the Arctic mesosphere and lower thermosphere. <i>Journal of Geophysical Research</i> , 2002, 107, SIA 2-1-SIA 2-11.	3.3	49
14	Southern Argentina Agile Meteor Radar: System design and initial measurements of large-scale winds and tides. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	49
15	Dynamical Response to the QBO in the Northern Winter Stratosphere: Signatures in Wave Forcing and Eddy Fluxes of Potential Vorticity. <i>Journals of the Atmospheric Sciences</i> , 2015, 72, 4487-4507.	0.6	47
16	The Semiannual Oscillation of the Tropical Zonal Wind in the Middle Atmosphere Derived from Satellite Geopotential Height Retrievals. <i>Journals of the Atmospheric Sciences</i> , 2017, 74, 2413-2425.	0.6	40
17	Observations and modeling of the 6-hour tide in the upper mesosphere. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	38
18	Gravity wave-tidal interactions in the mesosphere and lower thermosphere over Rothera, Antarctica (68°S, 68°W). <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	38

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19	Global free oscillations of the atmosphere and secondary planetary waves in the mesosphere and lower thermosphere region during August/September time conditions. <i>Journal of Geophysical Research</i> , 2002, 107, ACL 24-1.	3.3	36
20	The sporadic radiant and distribution of meteors in the atmosphere as observed by VHF radar at Arctic, Antarctic and equatorial latitudes. <i>Annales Geophysicae</i> , 2009, 27, 2831-2841.	0.6	36
21	A link between variability of the semidiurnal tide and planetary waves in the opposite hemisphere. <i>Geophysical Research Letters</i> , 2007, 34, .	1.5	35
22	The wintertime two-day wave in the polar stratosphere, mesosphere and lower thermosphere. <i>Atmospheric Chemistry and Physics</i> , 2008, 8, 749-755.	1.9	35
23	The 5-day wave in the Arctic and Antarctic mesosphere and lower thermosphere. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	35
24	Gravity waves in the winter stratosphere over the Southern Ocean: high-resolution satellite observations and 3-D spectral analysis. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 15377-15414.	1.9	31
25	Multi-instrument gravity-wave measurements over Tierra del Fuego and the Drake Passage – Part 1: Potential energies and vertical wavelengths from AIRS, COSMIC, HIRDLS, MLS-Aura, SAAMER, SABER and radiosondes. <i>Atmospheric Measurement Techniques</i> , 2016, 9, 877-908.	1.2	28
26	Assessment of gravity wave momentum flux measurement capabilities by meteor radars having different transmitter power and antenna configurations. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	27
27	A two-dimensional Stockwell transform for gravity wave analysis of AIRS measurements. <i>Atmospheric Measurement Techniques</i> , 2016, 9, 2545-2565.	1.2	27
28	Mean winds, temperatures and the 16- and 5-day planetary waves in the mesosphere and lower thermosphere over Bear Lake Observatory (42° N, 111° W). <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 1571-1585.	1.9	26
29	Evidence of dispersion and refraction of a spectrally broad gravity wave packet in the mesopause region observed by the Na lidar and Mesospheric Temperature Mapper above Logan, Utah. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 579-594.	1.2	26
30	An 18-Year Climatology of Directional Stratospheric Gravity Wave Momentum Flux From 3-Satellite Observations. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL089557.	1.5	26
31	Interhemispheric differences of mesosphere–lower thermosphere winds and tides investigated from three whole-atmosphere models and meteor radar observations. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 13855-13902.	1.9	24
32	Interannual variability of mesopause zonal winds over Ascension Island: Coupling to the stratospheric QBO. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 12,052.	1.2	23
33	Seasonal evolution of the QBO-induced wave forcing and circulation anomalies in the northern winter stratosphere. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 10,411.	1.2	23
34	Unusual Quasi 10-Day Planetary Wave Activity and the Ionospheric Response During the 2019 Southern Hemisphere Sudden Stratospheric Warming. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2021JA029286.	0.8	22
35	A comprehensive survey of atmospheric quasi 3-day planetary-scale waves and their impacts on the day-to-day variations of the equatorial ionosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 2979-2992.	0.8	21
36	Intra-seasonal oscillations observed in the MLT region above UK (52°N, 2°W) and ESRANGE (68°N, 21°E). <i>Geophysical Research Letters</i> , 2003, 30, .	1.5	20

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37	Longitude variability of the solar semidiurnal tide in the lower thermosphere through assimilation of ground- and space-based wind measurements. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	18
38	Coordinated investigation of summer time mid-latitude descending E layer (E_{sc}) perturbations using Na lidar, ionosonde, and meteor wind radar observations over Logan, Utah (41.7°N , 111.8°W). <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 1734-1746.	1.2	17
39	A new height for the summer mesopause: Antarctica, December 2007. <i>Geophysical Research Letters</i> , 2008, 35, .	1.5	16
40	Longitudinal variability in intraseasonal oscillation in the tropical mesosphere and lower thermosphere region. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	16
41	Determining Gravity Wave Sources and Propagation in the Southern Hemisphere by Ray-Tracing AIRS Measurements. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL088621.	1.5	16
42	Winds and tides of the Antarctic mesosphere and lower thermosphere: One year of meteor-radar observations over Rothera (68°S , 68°W) and comparisons with WACCM and eCMAM. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2021, 212, 105510.	0.6	14
43	Global observations of 2-day wave coupling to the diurnal tide in a high-altitude forecast-assimilation system. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 4135-4149.	1.2	13
44	The South Georgia Wave Experiment: A Means for Improved Analysis of Gravity Waves and Low-Level Wind Impacts Generated from Mountainous Islands. <i>Bulletin of the American Meteorological Society</i> , 2018, 99, 1027-1040.	1.7	13
45	Interhemispheric structure and variability of the 5-day planetary wave from meteor radar wind measurements. <i>Annales Geophysicae</i> , 2015, 33, 1349-1359.	0.6	11
46	Activities of Small-Scale Gravity Waves in the Upper Mesosphere Observed From Meteor Radar at King Sejong Station, Antarctica (62.22°S , 58.78°W) and Their Potential Sources. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2021JD034528.	1.2	11
47	Atmospheric tomography using the Nordic Meteor Radar Cluster and Chilean Observation Network De Meteor Radars: network details and 3D-Var retrieval. <i>Atmospheric Measurement Techniques</i> , 2021, 14, 6509-6532.	1.2	10
48	A high-latitude 8-hour wave in the mesosphere and lower thermosphere. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	9
49	Structure, Variability, and Mean-Flow Interactions of the January 2015 Quasi-2-Day Wave at Middle and High Southern Latitudes. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 5981-6008.	1.2	7
50	Stratospheric gravity waves over the mountainous island of South Georgia: testing a high-resolution dynamical model with 3-D satellite observations and radiosondes. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 7695-7722.	1.9	7
51	Wind Variations in the Mesosphere and Lower Thermosphere Near 60°S Latitude During the 2019 Antarctic Sudden Stratospheric Warming. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028909.	0.8	6
52	The South Georgia Wave Experiment ($SGWEX$): radiosonde observations of gravity waves in the lower stratosphere. Part I: Energy density, momentum flux and wave propagation direction. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2017, 143, 3279-3290.	1.0	5
53	Climatology of quasi-2-day wave structure and variability at middle latitudes in the northern and southern hemispheres. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2021, 221, 105690.	0.6	4
54	Analysis of migrating and non-migrating tides of the Extended Unified Model in the mesosphere and lower thermosphere. <i>Annales Geophysicae</i> , 2022, 40, 327-358.	0.6	3

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55	Radiosonde Observations of a Wintertime Meridional Convergence of Gravity Waves Around 60°S in the Lower Stratosphere. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL089740.	1.5	2