

# Dave Fritts

## List of Publications by Citations

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158  
papers

9,080  
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49  
h-index

91  
g-index

170  
ext. papers

9,989  
ext. citations

3.6  
avg, IF

6.16  
L-index

#	Paper	IF	Citations
158	Gravity wave dynamics and effects in the middle atmosphere. <i>Reviews of Geophysics</i> , <b>2003</b> , 41,	23.1	1562
157	Gravity wave saturation in the middle atmosphere: A review of theory and observations. <i>Reviews of Geophysics</i> , <b>1984</b> , 22, 275	23.1	465
156	Mesospheric Momentum Flux Studies at Adelaide, Australia: Observations and a Gravity Wave/Tidal Interaction Model. <i>Journals of the Atmospheric Sciences</i> , <b>1987</b> , 44, 605-619	2.1	326
155	Convective and dynamical instabilities due to gravity wave motions in the lower and middle atmosphere: Theory and observations. <i>Radio Science</i> , <b>1985</b> , 20, 1247-1277	1.4	245
154	Sources of Mesoscale Variability of Gravity Waves. Part II: Frontal, Convective, and Jet Stream Excitation. <i>Journals of the Atmospheric Sciences</i> , <b>1992</b> , 49, 111-127	2.1	198
153	Thermospheric responses to gravity waves: Influences of increasing viscosity and thermal diffusivity. <i>Journal of Geophysical Research</i> , <b>2005</b> , 110,		185
152	Spectral Estimates of Gravity Wave Energy and Momentum Fluxes. Part I: Energy Dissipation, Acceleration, and Constraints. <i>Journals of the Atmospheric Sciences</i> , <b>1993</b> , 50, 3685-3694	2.1	157
151	Sources of Mesoscale Variability of Gravity Waves. Part I: Topographic Excitation. <i>Journals of the Atmospheric Sciences</i> , <b>1992</b> , 49, 101-110	2.1	156
150	Gravity wave initiation of equatorial spread F/plasma bubble irregularities based on observational data from the SpreadFEx campaign. <i>Annales Geophysicae</i> , <b>2009</b> , 27, 2607-2622	2	147
149	A theory of enhanced saturation of the gravity wave spectrum due to increases in atmospheric stability. <i>Pure and Applied Geophysics</i> , <b>1989</b> , 130, 399-420	2.2	144
148	Mechanism for the Generation of Secondary Waves in Wave Breaking Regions. <i>Journals of the Atmospheric Sciences</i> , <b>2003</b> , 60, 194-214	2.1	131
147	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> , <b>2016</b> , 97, 425-453	6.1	121
146	Mean and variable forcing of the middle atmosphere by gravity waves. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , <b>2006</b> , 68, 247-265	2	118
145	Spectral Estimates of Gravity Wave Energy and Momentum Fluxes. Part II: Parameterization of Wave Forcing and Variability. <i>Journals of the Atmospheric Sciences</i> , <b>1993</b> , 50, 3695-3713	2.1	118
144	Gravity wave breaking in two and three dimensions: 2. Three-dimensional evolution and instability structure. <i>Journal of Geophysical Research</i> , <b>1994</b> , 99, 8109		109
143	Fluxes of Heat and Constituents Due to Convectively Unstable Gravity Waves. <i>Journals of the Atmospheric Sciences</i> , <b>1985</b> , 42, 549-556	2.1	107
142	Wave breaking signatures in OH airglow and sodium densities and temperatures: 1. Airglow imaging, Na lidar, and MF radar observations. <i>Journal of Geophysical Research</i> , <b>1997</b> , 102, 6655-6668		104

141	Stratified shear turbulence: Evolution and statistics. <i>Geophysical Research Letters</i> , <b>1999</b> , 26, 439-442	4.9	102
140	Vorticity dynamics in a breaking internal gravity wave. Part 1. Initial instability evolution. <i>Journal of Fluid Mechanics</i> , <b>1998</b> , 367, 27-46	3.7	98
139	Observational evidence of wave ducting and evanescence in the mesosphere. <i>Journal of Geophysical Research</i> , <b>1997</b> , 102, 26301-26313		95
138	Turbulence statistics of a Kelvin-Helmholtz billow event observed in the night-time boundary layer during the Cooperative Atmosphere-Surface Exchange Study field program. <i>Dynamics of Atmospheres and Oceans</i> , <b>2001</b> , 34, 189-204	1.9	89
137	Gravity Wave Instability Dynamics at High Reynolds Numbers. Part I: Wave Field Evolution at Large Amplitudes and High Frequencies. <i>Journals of the Atmospheric Sciences</i> , <b>2009</b> , 66, 1126-1148	2.1	87
136	Thermospheric responses to gravity waves arising from mesoscale convective complexes. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , <b>2004</b> , 66, 781-804	2	87
135	Wave breaking signatures in noctilucent clouds. <i>Geophysical Research Letters</i> , <b>1993</b> , 20, 2039-2042	4.9	86
134	Gravity wave penetration into the thermosphere: sensitivity to solar cycle variations and mean winds. <i>Annales Geophysicae</i> , <b>2008</b> , 26, 3841-3861	2	85
133	Gravity Wave Radiation and Mean Responses to Local Body Forces in the Atmosphere. <i>Journals of the Atmospheric Sciences</i> , <b>2001</b> , 58, 2249-2279	2.1	84
132	Gravity wave breaking in two and three dimensions: 1. Model description and comparison of two-dimensional evolutions. <i>Journal of Geophysical Research</i> , <b>1994</b> , 99, 8095		84
131	Evidence of gravity wave saturation and local turbulence production in the summer mesosphere and lower thermosphere during the STATE experiment. <i>Journal of Geophysical Research</i> , <b>1988</b> , 93, 7015-7025		84
130	Mean Motions and Tidal and Two-Day Structure and Variability in the Mesosphere and Lower Thermosphere over Hawaii. <i>Journals of the Atmospheric Sciences</i> , <b>1994</b> , 51, 2145-2164	2.1	82
129	Influence of solar variability on gravity wave structure and dissipation in the thermosphere from tropospheric convection. <i>Journal of Geophysical Research</i> , <b>2006</b> , 111,		80
128	Evolution and Breakdown of Kelvin-Helmholtz Billows in Stratified Compressible Flows. Part I: Comparison of Two- and Three-Dimensional Flows. <i>Journals of the Atmospheric Sciences</i> , <b>1996</b> , 53, 3173-3191	3.1	78
127	Two-day wave coupling of the low-latitude atmosphere-ionosphere system. <i>Journal of Geophysical Research</i> , <b>2006</b> , 111,		77
126	Layering accompanying turbulence generation due to shear instability and gravity-wave breaking. <i>Journal of Geophysical Research</i> , <b>2003</b> , 108,		76
125	Gravity Wave Instability Dynamics at High Reynolds Numbers. Part II: Turbulence Evolution, Structure, and Anisotropy. <i>Journals of the Atmospheric Sciences</i> , <b>2009</b> , 66, 1149-1171	2.1	75
124	Wave Breaking and Transition to Turbulence in Stratified Shear Flows. <i>Journals of the Atmospheric Sciences</i> , <b>1996</b> , 53, 1057-1085	2.1	75

123	Gravity wave and tidal influences on equatorial spread F based on observations during the Spread F Experiment (SpreadFEx). <i>Annales Geophysicae</i> , <b>2008</b> , 26, 3235-3252	2	72
122	An Investigation of the Vertical Wavenumber and Frequency Spectra of Gravity Wave Motions in the Lower Stratosphere. <i>Journals of the Atmospheric Sciences</i> , <b>1987</b> , 44, 3610-3624	2.1	72
121	Vorticity dynamics in a breaking internal gravity wave. Part 2. Vortex interactions and transition to turbulence. <i>Journal of Fluid Mechanics</i> , <b>1998</b> , 367, 47-65	3.7	71
120	Convection: the likely source of the medium-scale gravity waves observed in the OH airglow layer near Brasilia, Brazil, during the SpreadFEx campaign. <i>Annales Geophysicae</i> , <b>2009</b> , 27, 231-259	2	69
119	Enhanced gravity-wave activity and interhemispheric coupling during the MaCWAVE/MIDAS northern summer program 2002. <i>Annales Geophysicae</i> , <b>2006</b> , 24, 1175-1188	2	66
118	Shear Excitation of Atmospheric Gravity Waves. Part II: Nonlinear Radiation from a Free Shear Layer. <i>Journals of the Atmospheric Sciences</i> , <b>1984</b> , 41, 524-537	2.1	64
117	Measurement of Momentum Fluxes near the Summer Mesopause at Poker Flat, Alaska. <i>Journals of the Atmospheric Sciences</i> , <b>1989</b> , 46, 2569-2579	2.1	62
116	An estimate of strong local body forcing and gravity wave radiation based on OH airglow and meteor radar observations. <i>Geophysical Research Letters</i> , <b>2002</b> , 29, 71-1-71-4	4.9	59
115	A climatology of tides in the Antarctic mesosphere and lower thermosphere. <i>Journal of Geophysical Research</i> , <b>2006</b> , 111,		57
114	Wave breaking signatures in sodium densities and OH nightglow: 2. Simulation of wave and instability structures. <i>Journal of Geophysical Research</i> , <b>1997</b> , 102, 6669-6684		54
113	Mesospheric Momentum Fluxes Observed by the MST Radar at Poker Flat, Alaska. <i>Journals of the Atmospheric Sciences</i> , <b>1990</b> , 47, 1512-1521	2.1	54
112	An analysis of gravity wave ducting in the atmosphere: Eckart's resonances in thermal and Doppler ducts. <i>Journal of Geophysical Research</i> , <b>1989</b> , 94, 18455		53
111	Characteristics of mesospheric gravity waves near the magnetic equator, Brazil, during the SpreadFEx campaign. <i>Annales Geophysicae</i> , <b>2009</b> , 27, 461-472	2	51
110	A Quasi-Linear Study of Gravity-Wave Saturation and Self-Acceleration. <i>Journals of the Atmospheric Sciences</i> , <b>1984</b> , 41, 3272-3289	2.1	50
109	Southern Argentina Agile Meteor Radar: Initial assessment of gravity wave momentum fluxes. <i>Journal of Geophysical Research</i> , <b>2010</b> , 115,		48
108	Turbulence measurements and implications for gravity wave dissipation during the MaCWAVE/MIDAS rocket program. <i>Geophysical Research Letters</i> , <b>2004</b> , 31,	4.9	48
107	Observations of extreme temperature and wind gradients near the summer mesopause during the MaCWAVE/MIDAS rocket campaign. <i>Geophysical Research Letters</i> , <b>2004</b> , 31,	4.9	47
106	Gravity Wave Structure between 60 and 90 km Inferred from Space Shuttle Reentry Data. <i>Journals of the Atmospheric Sciences</i> , <b>1989</b> , 46, 423-434	2.1	47

105	Gravity Wave 1-leaf Fluxes: A Lagrangian Approach. <i>Journals of the Atmospheric Sciences</i> , <b>1988</b> , 45, 1770-1780	4.7	47
104	Gravity-Wave Excitation by Geostrophic Adjustment of the Jet Stream. Part II: Three-Dimensional Forcing. <i>Journals of the Atmospheric Sciences</i> , <b>1993</b> , 50, 104-115	2.1	46
103	Evolution and Breakdown of Kelvin-Helmholtz Billows in Stratified Compressible Flows. Part II: Instability Structure, Evolution, and Energetics. <i>Journals of the Atmospheric Sciences</i> , <b>1996</b> , 53, 3192-3212	2.1	45
102	Influences of source conditions on mountain wave penetration into the stratosphere and mesosphere. <i>Geophysical Research Letters</i> , <b>2015</b> , 42, 9488-9494	4.9	43
101	The importance of spatial variability in the generation of secondary gravity waves from local body forces. <i>Geophysical Research Letters</i> , <b>2002</b> , 29, 45-1-45-4	4.9	43
100	Evidence of Gravity Wave-Tidal Interaction Observed near the Summer Mesopause at Poker Flat, Alaska. <i>Journals of the Atmospheric Sciences</i> , <b>1991</b> , 48, 572-583	2.1	43
99	Southern Argentina Agile Meteor Radar: System design and initial measurements of large-scale winds and tides. <i>Journal of Geophysical Research</i> , <b>2010</b> , 115,		42
98	Two-day wave structure and mean flow interactions observed by radar and High Resolution Doppler Imager. <i>Journal of Geophysical Research</i> , <b>1999</b> , 104, 3953-3969		42
97	Quantifying Kelvin-Helmholtz instability dynamics observed in noctilucent clouds: 1. Methods and observations. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2014</b> , 119, 9324-9337	4.4	41
96	The MaCWAVE/MIDAS rocket and ground-based measurements of polar summer dynamics: Overview and mean state structure. <i>Geophysical Research Letters</i> , <b>2004</b> , 31,	4.9	41
95	Stratospheric Gravity Wave Fluxes and Scales during DEEPWAVE. <i>Journals of the Atmospheric Sciences</i> , <b>2016</b> , 73, 2851-2869	2.1	40
94	Momentum flux estimates accompanying multiscale gravity waves over Mount Cook, New Zealand, on 13 July 2014 during the DEEPWAVE campaign. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2015</b> , 120, 9323-9337	4.4	40
93	Gravity Wave Influences in the Thermosphere and Ionosphere: Observations and Recent Modeling <b>2011</b> , 109-130		39
92	Determination of horizontal and vertical structure of an unusual pattern of short period gravity waves imaged during ALOHA-93. <i>Geophysical Research Letters</i> , <b>1995</b> , 22, 2837-2840	4.9	39
91	Gravity Wave-Fine Structure Interactions. Part I: Influences of Fine Structure Form and Orientation on Flow Evolution and Instability. <i>Journals of the Atmospheric Sciences</i> , <b>2013</b> , 70, 3710-3734	2.1	37
90	Secondary gravity wave generation over New Zealand during the DEEPWAVE campaign. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2017</b> , 122, 7834-7850	4.4	35
89	The Excitation of Radiating Waves and Kelvin-Helmholtz Instabilities by the Gravity Wave-Critical Level Interaction. <i>Journals of the Atmospheric Sciences</i> , <b>1979</b> , 36, 12-23	2.1	35
88	Quantifying gravity wave momentum fluxes with Mesosphere Temperature Mappers and correlative instrumentation. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2014</b> , 119, 13,583-13,603	4.4	33

87	THE SOUTHERN ARGENTINA AGILE METEOR RADAR ORBITAL SYSTEM (SAAMER-OS): AN INITIAL SPORADIC METEOROID ORBITAL SURVEY IN THE SOUTHERN SKY. <i>Astrophysical Journal</i> , <b>2015</b> , 809, 36	4.7	33
86	The initial value problem for Kelvin vortex waves. <i>Journal of Fluid Mechanics</i> , <b>1997</b> , 344, 181-212	3.7	33
85	Regional variations of mesospheric gravity-wave momentum flux over Antarctica. <i>Annales Geophysicae</i> , <b>2006</b> , 24, 81-88	2	33
84	Mean Winds and Momentum Fluxes over Jicamarca, Peru, during June and August 1987. <i>Journals of the Atmospheric Sciences</i> , <b>1992</b> , 49, 2372-2383	2.1	33
83	Numerical Modeling of Multiscale Dynamics at a High Reynolds Number: Instabilities, Turbulence, and an Assessment of Ozmidov and Thorpe Scales. <i>Journals of the Atmospheric Sciences</i> , <b>2016</b> , 73, 555-578	2.1	33
82	Dynamics of Orographic Gravity Waves Observed in the Mesosphere over the Auckland Islands during the Deep Propagating Gravity Wave Experiment (DEEPWAVE). <i>Journals of the Atmospheric Sciences</i> , <b>2016</b> , 73, 3855-3876	2.1	33
81	Spectral Estimates of Gravity Wave Energy and Momentum Fluxes. Part III: Gravity Wave-Tidal Interactions. <i>Journals of the Atmospheric Sciences</i> , <b>1993</b> , 50, 3714-3727	2.1	32
80	Dynamics of the Equatorial Mesosphere Observed Using the Jicamarca MST Radar during June and August 1987. <i>Journals of the Atmospheric Sciences</i> , <b>1992</b> , 49, 2353-2371	2.1	32
79	Self-acceleration and instability of gravity wave packets: 1. Effects of temporal localization. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2015</b> , 120, 8783-8803	4.4	31
78	Gravity wave fine structure interactions: A reservoir of small-scale and large-scale turbulence energy. <i>Geophysical Research Letters</i> , <b>2009</b> , 36,	4.9	30
77	Large-amplitude mesospheric response to an orographic wave generated over the Southern Ocean Auckland Islands (50.7°S) during the DEEPWAVE project. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2016</b> , 121, 1431-1441	4.4	30
76	Numerical modeling of a multiscale gravity wave event and its airglow signatures over Mount Cook, New Zealand, during the DEEPWAVE campaign. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2017</b> , 122, 846-860	4.4	29
75	Numerical simulation of gravity wave breaking in the lower thermosphere. <i>Journal of Geophysical Research</i> , <b>2012</b> , 117, n/a-n/a		29
74	Gravity wave propagation through a large semidiurnal tide and instabilities in the mesosphere and lower thermosphere during the winter 2003 MaCWAVE rocket campaign. <i>Annales Geophysicae</i> , <b>2006</b> , 24, 1199-1208	2	29
73	Transient Gravity Wave-Critical Layer Interaction. Part I: Convective Adjustment and the Mean Zonal Acceleration. <i>Journals of the Atmospheric Sciences</i> , <b>1984</b> , 41, 992-1007	2.1	29
72	Drake Antarctic Agile Meteor Radar first results: Configuration and comparison of mean and tidal wind and gravity wave momentum flux measurements with Southern Argentina Agile Meteor Radar. <i>Journal of Geophysical Research</i> , <b>2012</b> , 117, n/a-n/a		28
71	Improved analysis of all-sky meteor radar measurements of gravity wave variances and momentum fluxes. <i>Annales Geophysicae</i> , <b>2013</b> , 31, 889-908	2	27
70	High-resolution observations and modeling of turbulence sources, structures, and intensities in the upper mesosphere. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , <b>2017</b> , 162, 57-78	2	26

69	The life cycle of instability features measured from the Andes Lidar Observatory over Cerro Pachon on 24 March 2012. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2014</b> , 119, 8872-8898	4.4	25
68	Fine-Scale Characteristics of Temperature, Wind, and Turbulence in the Lower Atmosphere (01,300 m) Over the South Peruvian Coast. <i>Boundary-Layer Meteorology</i> , <b>2013</b> , 147, 165-178	3.4	25
67	Assessment of gravity wave momentum flux measurement capabilities by meteor radars having different transmitter power and antenna configurations. <i>Journal of Geophysical Research</i> , <b>2012</b> , 117, n/a-n/a		24
66	Gravity wave momentum flux in the upper mesosphere derived from OH airglow imaging measurements. <i>Earth, Planets and Space</i> , <b>2007</b> , 59, 421-428	2.9	24
65	Quantifying Kelvin-Helmholtz instability dynamics observed in noctilucent clouds: 2. Modeling and interpretation of observations. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2014</b> , 119, 9359-9375	4.4	23
64	Does Strong Tropospheric Forcing Cause Large-Amplitude Mesospheric Gravity Waves? A DEEPWAVE Case Study. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2017</b> , 122, 11,422	4.4	23
63	Three-dimensional evolution of Kelvin-Helmholtz billows in stratified compressible flow. <i>Geophysical Research Letters</i> , <b>1994</b> , 21, 2287-2290	4.9	23
62	Computation of clear-air radar backscatter from numerical simulations of turbulence: 3. Off-zenith measurements and biases throughout the lifecycle of a Kelvin-Helmholtz instability. <i>Journal of Geophysical Research</i> , <b>2012</b> , 117, n/a-n/a		22
61	Long-term observations of the quasi two-day wave by Hawaii MF radar. <i>Journal of Geophysical Research: Space Physics</i> , <b>2013</b> , 118, 7886-7894	2.6	22
60	Large-Amplitude Mountain Waves in the Mesosphere Accompanying Weak Cross-Mountain Flow During DEEPWAVE Research Flight RF22. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2018</b> , 123, 9992	4.4	21
59	Computation of clear-air radar backscatter from numerical simulations of turbulence: 2. Backscatter moments throughout the lifecycle of a Kelvin-Helmholtz instability. <i>Journal of Geophysical Research</i> , <b>2011</b> , 116,		21
58	Observation of a mesospheric front in a thermal-doppler duct over King George Island, Antarctica. <i>Atmospheric Chemistry and Physics</i> , <b>2011</b> , 11, 12137-12147	6.8	21
57	Numerical simulation of bore generation and morphology in thermal and Doppler ducts. <i>Annales Geophysicae</i> , <b>2009</b> , 27, 511-523	2	21
56	Gravity waves in the middle atmosphere during the MaCWAVE winter campaign: evidence of mountain wave critical level encounters. <i>Annales Geophysicae</i> , <b>2006</b> , 24, 1209-1226	2	21
55	Unexpected climatological behavior of MLT gravity wave momentum flux in the lee of the Southern Andes hot spot. <i>Geophysical Research Letters</i> , <b>2017</b> , 44, 1182-1191	4.9	20
54	Climatology of semidiurnal lunar and solar tides at middle and high latitudes: Interhemispheric comparison. <i>Journal of Geophysical Research: Space Physics</i> , <b>2017</b> , 122, 7750-7760	2.6	20
53	Intense turbulence observed above a mesospheric temperature inversion at equatorial latitude. <i>Geophysical Research Letters</i> , <b>2006</b> , 33,	4.9	20
52	The MaCWAVE program to study gravity wave influences on the polar mesosphere. <i>Annales Geophysicae</i> , <b>2006</b> , 24, 1159-1173	2	20

51	Major upwelling and overturning in the mid-latitude F region ionosphere. <i>Nature Communications</i> , <b>2018</b> , 9, 3326	17.4	19
50	Investigation of a mesospheric gravity wave ducting event using coordinated sodium lidar and Mesospheric Temperature Mapper measurements at ALOMAR, Norway (69°N). <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2014</b> , 119, 9765-9778	4.4	18
49	PMC Turbo: Studying Gravity Wave and Instability Dynamics in the Summer Mesosphere Using Polar Mesospheric Cloud Imaging and Profiling From a Stratospheric Balloon. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2019</b> , 124, 6423-6443	4.4	17
48	Dynamical and radiative forcing of the summer mesopause circulation and thermal structure: 2. Seasonal variations. <i>Journal of Geophysical Research</i> , <b>1995</b> , 100, 3129		17
47	Gravity Wave Dynamics in a Mesospheric Inversion Layer: 1. Reflection, Trapping, and Instability Dynamics. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2018</b> , 123, 626-648	4.4	17
46	Gravity Wave Fine Structure Interactions. Part II: Energy Dissipation Evolutions, Statistics, and Implications. <i>Journals of the Atmospheric Sciences</i> , <b>2013</b> , 70, 3735-3755	2.1	16
45	Gravity wave effects on postsunset equatorial F region stability. <i>Journal of Geophysical Research: Space Physics</i> , <b>2014</b> , 119, 5847-5860	2.6	15
44	Modeling the implications of Kelvin-Helmholtz instability dynamics for airglow observations. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2014</b> , 119, 8858-8871	4.4	15
43	Equatorial dynamics observed by rocket, radar, and satellite during the CADRE/MALTED campaign: 1. Programmatics and small-scale fluctuations. <i>Journal of Geophysical Research</i> , <b>1997</b> , 102, 26179-26190		15
42	On the downward bias in vertical velocity measurements by VHF radars. <i>Geophysical Research Letters</i> , <b>1995</b> , 22, 619-622	4.9	15
41	Stratospheric imaging of polar mesospheric clouds: A new window on small-scale atmospheric dynamics. <i>Geophysical Research Letters</i> , <b>2015</b> , 42, 6058-6065	4.9	14
40	Observations of the Breakdown of Mountain Waves Over the Andes Lidar Observatory at Cerro Pachon on 8/9 July 2012. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2018</b> , 123, 276-299	4.4	13
39	Gravity Wave Dynamics in a Mesospheric Inversion Layer: 2. Instabilities, Turbulence, Fluxes, and Mixing. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2018</b> , 123, 649-670	4.4	12
38	QBO modulation of the mesopause gravity wave momentum flux over Tierra del Fuego. <i>Geophysical Research Letters</i> , <b>2016</b> , 43, 4049-4055	4.9	12
37	Long-term observations of the wind field in the Antarctic and Arctic mesosphere and lower-thermosphere at conjugate latitudes. <i>Journal of Geophysical Research</i> , <b>2011</b> , 116,		12
36	Observations of inertia-gravity wave motions in the stratosphere over Jicamarca, Peru. <i>Geophysical Research Letters</i> , <b>1995</b> , 22, 3239-3242	4.9	12
35	Large-Amplitude Mountain Waves in the Mesosphere Observed on 21 June 2014 During DEEPWAVE: 2. Nonlinear Dynamics, Wave Breaking, and Instabilities. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2019</b> , 124, 10006-10032	4.4	12
34	Self-Acceleration and Instability of Gravity Wave Packets: 2. Two-Dimensional Packet Propagation, Instability Dynamics, and Transient Flow Responses. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2020</b> , 125, e2019JD030691	4.4	11



33	Fine Structure, Instabilities, and Turbulence in the Lower Atmosphere: High-Resolution In Situ Slant-Path Measurements with the DataHawk UAV and Comparisons with Numerical Modeling. <i>Journal of Atmospheric and Oceanic Technology</i> , <b>2018</b> , 35, 619-642	2	11
32	Large-Amplitude Mountain Waves in the Mesosphere Observed on 21 June 2014 During DEEPWAVE: 1. Wave Development, Scales, Momentum Fluxes, and Environmental Sensitivity. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2019</b> , 124, 10364-10384	4.4	11
31	A conjugate study of mean winds and planetary waves employing enhanced meteor radars at Rio Grande, Argentina (53.8°S) and Juliusruh, Germany (54.6°N). <i>Journal of Geophysical Research</i> , <b>2012</b> , 117, n/a-n/a		11
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