

# Stephen D Eckermann

## List of Publications by Year in descending order

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153  
papers

7,155  
citations

50276

46  
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74163

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165  
docs citations

165  
times ranked

2928  
citing authors

#	ARTICLE	IF	CITATIONS
1	An overview of the past, present and future of gravity wave drag parametrization for numerical climate and weather prediction models. <i>Atmosphere - Ocean</i> , 2003, 41, 65-98.	1.6	316
2	Global Measurements of Stratospheric Mountain Waves from Space. <i>Science</i> , 1999, 286, 1534-1537.	12.6	254
3	The Navy Global Environmental Model. <i>Oceanography</i> , 2014, 27, 116-125.	1.0	237
4	Space-based measurements of stratospheric mountain waves by CRISTA 1. Sensitivity, analysis method, and a case study. <i>Journal of Geophysical Research</i> , 2002, 107, CRI 6-1-CRI 6-23.	3.3	227
5	A Three-Dimensional Nonhydrostatic Ray-Tracing Model for Gravity Waves: Formulation and Preliminary Results for the Middle Atmosphere. <i>Journals of the Atmospheric Sciences</i> , 1995, 52, 1959-1984.	1.7	198
6	The predictability of the extratropical stratosphere on monthly time scales and its impact on the skill of tropospheric forecasts. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2015, 141, 987-1003.	2.7	162
7	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
8	Stratospheric horizontal wavenumber spectra of winds, potential temperature, and atmospheric tracers observed by high-altitude aircraft. <i>Journal of Geophysical Research</i> , 1996, 101, 9441-9470.	3.3	142
9	Global Gravity Wave Variances from Aura MLS: Characteristics and Interpretation. <i>Journals of the Atmospheric Sciences</i> , 2008, 65, 3695-3718.	1.7	127
10	On recent interannual variability of the Arctic winter mesosphere: Implications for tracer descent. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	122
11	Gravity wave and equatorial wave morphology of the stratosphere derived from long-term rocket soundings. <i>Quarterly Journal of the Royal Meteorological Society</i> , 1995, 121, 149-186.	2.7	121
12	Geographical distribution and interseasonal variability of tropical deep convection: UARS MLS observations and analyses. <i>Journal of Geophysical Research</i> , 2004, 109, n/a-n/a.	3.3	121
13	Global ray tracing simulations of the SABER gravity wave climatology. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	120
14	Remote sounding of atmospheric gravity waves with satellite limb and nadir techniques. <i>Advances in Space Research</i> , 2006, 37, 2269-2277.	2.6	118
15	Case studies of the mesospheric response to recent minor, major, and extended stratospheric warmings. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	114
16	High-altitude data assimilation system experiments for the northern summer mesosphere season of 2007. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2009, 71, 531-551.	1.6	106
17	Transparency of the atmosphere to short horizontal wavelength gravity waves. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	105
18	MIPAS detects Antarctic stratospheric belt of NAT PSCs caused by mountain waves. <i>Atmospheric Chemistry and Physics</i> , 2006, 6, 1221-1230.	4.9	102

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19	Momentum flux estimates for South Georgia Island mountain waves in the stratosphere observed via satellite. <i>Geophysical Research Letters</i> , 2009, 36, .	4.0	91
20	Falling sphere observations of anisotropic gravity wave motions in the upper stratosphere over Australia. <i>Pure and Applied Geophysics</i> , 1989, 130, 509-532.	1.9	85
21	Gravity wave variances and propagation derived from AIRS radiances. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 1701-1720.	4.9	84
22	Upper Atmosphere Research Satellite (UARS) MLS observation of mountain waves over the Andes. <i>Journal of Geophysical Research</i> , 2002, 107, SOL 15-1.	3.3	81
23	Characteristics of gravity waves resolved by ECMWF. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 10483-10508.	4.9	78
24	Intraseasonal wind variability in the equatorial mesosphere and lower thermosphere: long-term observations from the central Pacific. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 1997, 59, 603-627.	1.6	77
25	Tropopause to mesopause gravity waves in August: Measurement and modeling. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2006, 68, 1730-1751.	1.6	77
26	VHF Radar Observations of Gravity-Wave Production by Cold Fronts over Southern Australia. <i>Journals of the Atmospheric Sciences</i> , 1993, 50, 785-806.	1.7	76
27	The role of waves in the transport circulation of the middle atmosphere. <i>Geophysical Monograph Series</i> , 2000, , 21-35.	0.1	75
28	Widespread solid particle formation by mountain waves in the Arctic stratosphere. <i>Journal of Geophysical Research</i> , 1999, 104, 1827-1836.	3.3	73
29	Gravity-Wave Parameters in the Lower Stratosphere. , 1997, , 7-25.		73
30	What Is the Source of the Stratospheric Gravity Wave Belt in Austral Winter?. <i>Journals of the Atmospheric Sciences</i> , 2014, 71, 1583-1592.	1.7	69
31	Hemispheric differences in the temperature of the summertime stratosphere and mesosphere. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	68
32	A search for mountain waves in MLS stratospheric limb radiances from the winter Northern Hemisphere: Data analysis and global mountain wave modeling. <i>Journal of Geophysical Research</i> , 2004, 109, n/a-n/a.	3.3	66
33	Hodographic analysis of gravity waves: Relationships among Stokes parameters, rotary spectra and cross-spectral methods. <i>Journal of Geophysical Research</i> , 1996, 101, 19169-19174.	3.3	64
34	CHEM2D-OPP: A new linearized gas-phase ozone photochemistry parameterization for high-altitude NWP and climate models. <i>Atmospheric Chemistry and Physics</i> , 2006, 6, 4943-4972.	4.9	64
35	Comparison of global distributions of zonal-mean gravity wave variance inferred from different satellite instruments. <i>Geophysical Research Letters</i> , 2000, 27, 3877-3880.	4.0	62
36	Examining the Predictability of the Stratospheric Sudden Warming of January 2013 Using Multiple NWP Systems. <i>Monthly Weather Review</i> , 2016, 144, 1935-1960.	1.4	62

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37	Planetary Wave Breaking and Tropospheric Forcing as Seen in the Stratospheric Sudden Warming of 2006. <i>Journals of the Atmospheric Sciences</i> , 2009, 66, 495-507.	1.7	61
38	GROGRAT: A new model of the global propagation and dissipation of atmospheric gravity waves. <i>Advances in Space Research</i> , 1997, 20, 1253-1256.	2.6	60
39	Assimilation of stratospheric and mesospheric temperatures from MLS and SABER into a global NWP model. <i>Atmospheric Chemistry and Physics</i> , 2008, 8, 6103-6116.	4.9	60
40	Amplification of the quasi-two day wave through nonlinear interaction with the migrating diurnal tide. <i>Geophysical Research Letters</i> , 2010, 37, .	4.0	60
41	Antarctic NAT PSC belt of June 2003: Observational validation of the mountain wave seeding hypothesis. <i>Geophysical Research Letters</i> , 2009, 36, .	4.0	56
42	Differences in gravity wave drag between realistic oblique and assumed vertical propagation. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 10,081.	3.3	51
43	First tomographic observations of gravity waves by the infrared limb imager GLORIA. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 14937-14953.	4.9	51
44	First observations of intraseasonal oscillations in the equatorial mesosphere and lower thermosphere. <i>Geophysical Research Letters</i> , 1994, 21, 265-268.	4.0	50
45	Imaging gravity waves in lower stratospheric AMSU-A radiances, Part 2: Validation case study. <i>Atmospheric Chemistry and Physics</i> , 2006, 6, 3343-3362.	4.9	50
46	Horizontal propagation of large-amplitude mountain waves into the polar night jet. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 1423-1436.	3.3	49
47	Effect of superposition on measurements of atmospheric gravity waves: A cautionary note and some reinterpretations. <i>Journal of Geophysical Research</i> , 1989, 94, 6333-6339.	3.3	48
48	Influence of Wave Propagation on the Doppler Spreading of Atmospheric Gravity Waves. <i>Journals of the Atmospheric Sciences</i> , 1997, 54, 2554-2573.	1.7	48
49	Explicitly Stochastic Parameterization of Nonorographic Gravity Wave Drag. <i>Journals of the Atmospheric Sciences</i> , 2011, 68, 1749-1765.	1.7	48
50	An idealized ray model of gravity wave-tidal interactions. <i>Journal of Geophysical Research</i> , 1996, 101, 21195-21212.	3.3	47
51	Seasonal variation of the quasi 5 day planetary wave: Causes and consequences for polar mesospheric cloud variability in 2007. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	47
52	High-Altitude (0–100 km) Global Atmospheric Reanalysis System: Description and Application to the 2014 Austral Winter of the Deep Propagating Gravity Wave Experiment (DEEPWAVE). <i>Monthly Weather Review</i> , 2018, 146, 2639-2666.	1.4	47
53	On the observed morphology of gravity-wave and equatorial-wave variance in the stratosphere. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 1995, 57, 105-134.	0.9	46
54	RAY METHODS FOR INTERNAL WAVES IN THE ATMOSPHERE AND OCEAN. <i>Annual Review of Fluid Mechanics</i> , 2004, 36, 233-253.	25.0	46

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55	Ray-tracing simulation of the global propagation of inertia gravity waves through the zonally averaged middle atmosphere. <i>Journal of Geophysical Research</i> , 1992, 97, 15849-15866.	3.3	45
56	Effect of background winds on vertical wavenumber spectra of atmospheric gravity waves. <i>Journal of Geophysical Research</i> , 1995, 100, 14097.	3.3	45
57	Tidally induced variations of polar mesospheric cloud altitudes and ice water content using a data assimilation system. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	45
58	NOGAPS-ALPHA model simulations of stratospheric ozone during the SOLVE2 campaign. <i>Atmospheric Chemistry and Physics</i> , 2004, 4, 2401-2423.	4.9	43
59	NOGAPS-ALPHA Simulations of the 2002 Southern Hemisphere Stratospheric Major Warming. <i>Monthly Weather Review</i> , 2006, 134, 498-518.	1.4	43
60	Atmospheric effects of the total solar eclipse of 4 December 2002 simulated with a high-altitude global model. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	41
61	The Midlatitude Lower-Stratospheric Mountain Wave "Valve Layer". <i>Journals of the Atmospheric Sciences</i> , 2016, 73, 5081-5100.	1.7	39
62	Modeling the August 2002 minor warming event. <i>Geophysical Research Letters</i> , 2005, 32, n/a-n/a.	4.0	38
63	Mountain Wave-Induced Polar Stratospheric Cloud Forecasts for Aircraft Science Flights during SOLVE/THESEO 2000. <i>Weather and Forecasting</i> , 2006, 21, 42-68.	1.4	38
64	A three-dimensional mountain wave imaged in satellite radiance throughout the stratosphere: Evidence of the effects of directional wind shear. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2007, 133, 1959-1975.	2.7	38
65	VHF radar observations of mesoscale motions in the troposphere: Evidence for gravity wave Doppler shifting. <i>Radio Science</i> , 1990, 25, 1019-1037.	1.6	37
66	Indications of convectively generated gravity waves in stratospheric temperatures. <i>Advances in Space Research</i> , 2001, 27, 1653-1658.	2.6	37
67	Gravity waves and mesospheric clouds in the summer middle atmosphere: A comparison of lidar measurements and ray modeling of gravity waves over Sondrestrom, Greenland. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	37
68	Hybrid $f$ - $p$ Coordinate Choices for a Global Model. <i>Monthly Weather Review</i> , 2009, 137, 224-245.	1.4	37
69	Mesospheric Precursors to the Major Stratospheric Sudden Warming of 2009: Validation and Dynamical Attribution Using a Ground-to-Edge-of-Space Data Assimilation System. <i>Journal of Advances in Modeling Earth Systems</i> , 2011, 3, .	3.8	37
70	Analysis of gravity waves structures visible in noctilucent cloud images. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2011, 73, 2082-2090.	1.6	37
71	Evaluation of SSMIS Upper Atmosphere Sounding Channels for High-Altitude Data Assimilation. <i>Monthly Weather Review</i> , 2013, 141, 3314-3330.	1.4	37
72	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> , 2016, 73, 3855-3876.	1.7	37

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73	Seasonal variation of gravity wave sources from satellite observation. <i>Advances in Space Research</i> , 2005, 35, 1925-1932.	2.6	36
74	A comprehensive observational filter for satellite infrared limb sounding of gravity waves. <i>Atmospheric Measurement Techniques</i> , 2015, 8, 1491-1517.	3.1	36
75	Mesoscale Temperature Fluctuations Induced by a Spectrum of Gravity Waves: A Comparison of Parameterizations and Their Impact on Stratospheric Microphysics. <i>Journals of the Atmospheric Sciences</i> , 1999, 56, 1913-1924.	1.7	35
76	On the coupling between middle and upper atmospheric odd nitrogen. <i>Geophysical Monograph Series</i> , 2000, , 101-116.	0.1	35
77	Modulation of gravity waves by tides as seen in CRISTA temperatures. <i>Advances in Space Research</i> , 2001, 27, 1773-1778.	2.6	33
78	In situ observations of gravity waves and comparisons with numerical simulations during the SOLVE/THESEO 2000 campaign. <i>Journal of Geophysical Research</i> , 2002, 107, SOL 35-1.	3.3	33
79	A Modeling Study of Stratospheric Waves over the Southern Andes and Drake Passage. <i>Journals of the Atmospheric Sciences</i> , 2013, 70, 1668-1689.	1.7	33
80	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> , 2016, 121, 1431-1441.	3.3	33
81	Tuning of a convective gravity wave source scheme based on HIRDLS observations. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 7335-7356.	4.9	33
82	A Simplified Fourier Method for Nonhydrostatic Mountain Waves. <i>Journals of the Atmospheric Sciences</i> , 2003, 60, 2686-2696.	1.7	32
83	Isentropic advection by gravity waves: Quasi-universal vertical wavenumber spectra near the onset of instability. <i>Geophysical Research Letters</i> , 1999, 26, 201-204.	4.0	31
84	Mountain waves in the middle atmosphere: Microwave limb sounder observations and analyses. <i>Advances in Space Research</i> , 2003, 32, 801-806.	2.6	31
85	Scale-dependent infrared radiative damping rates on Mars and their role in the deposition of gravity-wave momentum flux. <i>Icarus</i> , 2011, 211, 429-442.	2.5	30
86	Gravity Wave Perturbations of Minor Constituents: A Parcel Advection Methodology. <i>Journals of the Atmospheric Sciences</i> , 1998, 55, 3521-3539.	1.7	29
87	Maslov's method for stationary hydrostatic mountain waves. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2002, 128, 1159-1171.	2.7	29
88	Gravity wave characteristics in the middle atmosphere derived from the Empirical Mode Decomposition method. <i>Journal of Geophysical Research</i> , 1997, 102, 16545-16561.	3.3	28
89	Large nitric acid trihydrate particles and denitrification caused by mountain waves in the Arctic stratosphere. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	28
90	Momentum Fluxes of Gravity Waves Generated by Variable Froude Number Flow over Three-Dimensional Obstacles. <i>Journals of the Atmospheric Sciences</i> , 2010, 67, 2260-2278.	1.7	28

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91	Local and Remote Planetary Wave Effects on Polar Mesospheric Clouds in the Northern Hemisphere in 2014. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 5149-5162.	3.3	28
92	Observational evidence against mountain-wave generation of ice nuclei as a prerequisite for the formation of three solid nitric acid polar stratospheric clouds observed in the Arctic in early December 1999. <i>Journal of Geophysical Research</i> , 2004, 109, n/a-n/a.	3.3	27
93	Role of lee waves in the formation of solid polar stratospheric clouds: Case studies from February 1997. <i>Journal of Geophysical Research</i> , 2000, 105, 6845-6853.	3.3	26
94	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> , 2018, 123, 9992.	3.3	26
95	Effects of Horizontal Geometrical Spreading on the Parameterization of Orographic Gravity Wave Drag. Part I: Numerical Transform Solutions. <i>Journals of the Atmospheric Sciences</i> , 2015, 72, 2330-2347.	1.7	25
96	A hybrid method for wave propagation from a localized source, with application to mountain waves. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2001, 127, 129-146.	2.7	24
97	Atmospheric Conditions during the Deep Propagating Gravity Wave Experiment (DEEPWAVE). <i>Monthly Weather Review</i> , 2017, 145, 4249-4275.	1.4	24
98	Age of air in a zonally averaged two-dimensional model. <i>Journal of Geophysical Research</i> , 1998, 103, 11263-11288.	3.3	21
99	Concerning the upper stratospheric gravity wave and mesospheric cloud relationship over Sondrestrom, Greenland. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2004, 66, 229-240.	1.6	21
100	Fourier-Ray Modeling of Short-Wavelength Trapped Lee Waves Observed in Infrared Satellite Imagery near Jan Mayen. <i>Monthly Weather Review</i> , 2006, 134, 2830-2848.	1.4	21
101	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> , 2019, 124, 10364-10384.	3.3	21
102	Stratospheric Trailing Gravity Waves from New Zealand. <i>Journals of the Atmospheric Sciences</i> , 2019, 76, 1565-1586.	1.7	21
103	Fourier-Ray Modeling of Transient Trapped Lee Waves. <i>Monthly Weather Review</i> , 2006, 134, 2849-2856.	1.4	20
104	Large-scale chemical evolution of the Arctic vortex during the 1999/2000 winter: HALOE/POAM III Lagrangian photochemical modeling for the SAGE III-Ozone Loss and Validation Experiment (SOLVE) campaign. <i>Journal of Geophysical Research</i> , 2002, 107, SOL 60-1-SOL 60-26.	3.3	19
105	Parameterisation of orographic cloud dynamics in a GCM. <i>Climate Dynamics</i> , 2007, 28, 581-597.	3.8	19
106	Falling Sphere Observations of Anisotropic Gravity Wave Motions in the Upper Stratosphere over Australia. , 1989, , 509-532.		19
107	Inter-annual variation of gravity waves in the Arctic and Antarctic winter middle atmosphere. <i>Advances in Space Research</i> , 2006, 38, 2418-2423.	2.6	18
108	A stationary phase solution for mountain waves with application to mesospheric mountain waves generated by Auckland Island. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 699-711.	3.3	18

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109	Dual lidar observations of mesoscale fluctuations of ozone and horizontal winds. <i>Geophysical Research Letters</i> , 1997, 24, 1627-1630.	4.0	17
110	The Partial Reflection of Tsunami-Generated Gravity Waves. <i>Journals of the Atmospheric Sciences</i> , 2014, 71, 3416-3426.	1.7	17
111	Mesospheric Bore Evolution and Instability Dynamics Observed in PMC Turbo Imaging and Rayleigh Lidar Profiling Over Northeastern Canada on 13 July 2018. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2019JD032037.	3.3	17
112	Effects of model chemistry and data biases on stratospheric ozone assimilation. <i>Atmospheric Chemistry and Physics</i> , 2007, 7, 2917-2935.	4.9	16
113	Determining Gravity Wave Sources and Propagation in the Southern Hemisphere by Ray-Tracing AIRS Measurements. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL088621.	4.0	16
114	Effects of nonstationarity on spectral analysis of mesoscale motions in the atmosphere. <i>Journal of Geophysical Research</i> , 1990, 95, 16685-16703.	3.3	15
115	Comparison of simulated and observed convective gravity waves. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 13,474.	3.3	15
116	Momentum Flux Spectra of a Mountain Wave Event Over New Zealand. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 9980-9991.	3.3	15
117	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> , 2019, 124, 10006-10032.	3.3	15
118	Sea surface temperature as a proxy for convective gravity wave excitation: a study based on global gravity wave observations in the middle atmosphere. <i>Annales Geophysicae</i> , 2014, 32, 1373-1394.	1.6	14
119	Practical Application of Two-Turning-Point Theory to Mountain-Wave Transmission through a Wind Jet. <i>Journals of the Atmospheric Sciences</i> , 2009, 66, 481-494.	1.7	12
120	Properties of the average distribution of equatorial Kelvin waves investigated with the GROGRAT ray tracer. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 7973-7995.	4.9	12
121	Satellite detection of orographic gravity-wave activity in the winter subtropical stratosphere over Australia and Africa. <i>Geophysical Research Letters</i> , 2012, 39, .	4.0	12
122	Regional Distribution of Mesospheric Small-Scale Gravity Waves During DEEPWAVE. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 7069-7081.	3.3	12
123	Mid-latitude temperatures at 87 km: Results from multi-instrument Fourier analysis. <i>Geophysical Research Letters</i> , 2000, 27, 2109-2112.	4.0	11
124	Imaging gravity waves in lower stratospheric AMSU-A radiances, Part 1: Simple forward model. <i>Atmospheric Chemistry and Physics</i> , 2006, 6, 3325-3341.	4.9	11
125	Influence of mountain waves and NAT nucleation mechanisms on polar stratospheric cloud formation at local and synoptic scales during the 1999-2000 Arctic winter. <i>Atmospheric Chemistry and Physics</i> , 2005, 5, 739-753.	4.9	10
126	Stratospheric Analysis and Forecast Errors Using Hybrid and Sigma Coordinates. <i>Monthly Weather Review</i> , 2014, 142, 476-485.	1.4	9



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127	Generation of a Quasi-Biennial Oscillation in an NWP Model Using a Stochastic Gravity Wave Drag Parameterization. <i>Monthly Weather Review</i> , 2015, 143, 2121-2147.	1.4	9
128	Internal Waves in a Lagrangian Reference Frame. <i>Journals of the Atmospheric Sciences</i> , 2004, 61, 1308-1313.	1.7	8
129	Effects of Horizontal Geometrical Spreading on the Parameterization of Orographic Gravity Wave Drag. Part II: Analytical Solutions. <i>Journals of the Atmospheric Sciences</i> , 2015, 72, 2348-2365.	1.7	8
130	Stratospheric Gravity Wave Products from Satellite Infrared Nadir Radiances in the Planning, Execution, and Validation of Aircraft Measurements during DEEPWAVE. <i>Journal of Applied Meteorology and Climatology</i> , 2019, 58, 2049-2075.	1.5	8
131	Year-round temperature and wave measurements of the arctic middle atmosphere for 1995–1998. <i>Geophysical Monograph Series</i> , 2000, , 213-219.	0.1	7
132	A causality-preserving Fourier method for gravity waves in a viscous, thermally diffusive, and vertically varying atmosphere. <i>Wave Motion</i> , 2019, 88, 226-256.	2.0	7
133	Analysis of Intermittency in Aircraft Measurements of Velocity, Temperature and Atmospheric Tracers using Wavelet Transforms. , 1997, , 85-102.		7
134	Integral expressions for mountain wave steepness. <i>Wave Motion</i> , 2015, 56, 1-13.	2.0	6
135	Numerical simulations of mountain waves in the middle atmosphere over the southern Andes. <i>Geophysical Monograph Series</i> , 2000, , 311-318.	0.1	5
136	Infrared limb sounding measurements of middle-atmosphere gravity waves by CRISTA. , 2003, 4882, 134.		5
137	Mesoscale Model Initialization of the Fourier Method for Mountain Waves. <i>Journals of the Atmospheric Sciences</i> , 2008, 65, 2749-2756.	1.7	5
138	Solitary Waves and Undular Bores in a Mesosphere Duct. <i>Journals of the Atmospheric Sciences</i> , 2015, 72, 4412-4422.	1.7	5
139	Gravity Wave Breaking and Vortex Ring Formation Observed by PMC Turbo. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2020JD033038.	3.3	5
140	Stratospheric Gravity Waves Excited by a Propagating Rossby Wave Train—A DEEPWAVE Case Study. <i>Journals of the Atmospheric Sciences</i> , 2022, 79, 567-591.	1.7	5
141	Simulation of lidar measurements of gravity waves in the mesosphere. <i>Journal of Geophysical Research</i> , 1996, 101, 9509-9522.	3.3	4
142	On the importance of weak steady shear in the refraction of short internal waves. <i>Geophysical Research Letters</i> , 1999, 26, 2877-2880.	4.0	4
143	Analysis of a ray-tracing model for gravity waves generated by tropospheric convection. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	3
144	Optimization of Gravity Wave Source Parameters for Improved Seasonal Prediction of the Quasi-Biennial Oscillation. <i>Journals of the Atmospheric Sciences</i> , 2019, 76, 2941-2962.	1.7	3

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145	Compatibility Conditions, Complex Frequency, and Complex Vertical Wave Number for Models of Gravity Waves in the Thermosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2020JA028011.	2.4	3
146	Horizontal temperature variability in the stratosphere: global variations inferred from CRISTA data. <i>Advances in Space Research</i> , 2001, 27, 1641-1646.	2.6	2
147	A coupled mesoscale-model Fourier-method for idealized mountain-wave simulations over Hawaii. <i>Meteorology and Atmospheric Physics</i> , 2010, 108, 71-81.	2.0	2
148	Statistical Parameter Estimation for Observation Error Modelling: Application to Meteor Radars. , 2022, , 185-213.		2
149	Generalized stationary phase approximations for mountain waves. <i>Physics of Fluids</i> , 2016, 28, 046601.	4.0	1
150	A single-mode approximation for gravity waves in the thermosphere. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2021, 224, 105749.	1.6	1
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