

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/5444237/h-l-liu-publications-by-citations.pdf>

**Version:** 2024-04-24

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

164  
papers

5,902  
citations

42  
h-index

69  
g-index

178  
ext. papers

6,693  
ext. citations

3.5  
avg, IF

6.06  
L-index

#	Paper	IF	Citations
164	A study of a self-generated stratospheric sudden warming and its mesospheric/lower thermospheric impacts using the coupled TIME-GCM/CCM3. <i>Journal of Geophysical Research</i> , <b>2002</b> , 107, ACL 15-1-ACL 15-18		298
163	Unexpected connections between the stratosphere and ionosphere. <i>Geophysical Research Letters</i> , <b>2010</b> , 37, n/a-n/a	4.9	207
162	Ionospheric variability due to planetary waves and tides for solar minimum conditions. <i>Journal of Geophysical Research</i> , <b>2010</b> , 115, n/a-n/a		181
161	Generation of large-scale gravity waves and neutral winds in the thermosphere from the dissipation of convectively generated gravity waves. <i>Journal of Geophysical Research</i> , <b>2009</b> , 114, n/a-n/a		160
160	Equatorial and Low Latitude Ionospheric Effects During Sudden Stratospheric Warming Events. <i>Space Science Reviews</i> , <b>2012</b> , 168, 385-417	7.5	152
159	Avalanche models for solar flares (Invited Review). <i>Solar Physics</i> , <b>2001</b> , 203, 321-353	2.6	135
158	Development and Validation of the Whole Atmosphere Community Climate Model With Thermosphere and Ionosphere Extension (WACCM-X 2.0). <i>Journal of Advances in Modeling Earth Systems</i> , <b>2018</b> , 10, 381-402	7.1	133
157	The Whole Atmosphere Community Climate Model Version 6 (WACCM6). <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2019</b> , 124, 12380-12403	4.4	126
156	On temperature inversions and the mesospheric surf zone. <i>Journal of Geophysical Research</i> , <b>2002</b> , 107, ACL 8-1		118
155	The 6.5-day wave and its seasonal variability in the middle and upper atmosphere. <i>Journal of Geophysical Research</i> , <b>2004</b> , 109, n/a-n/a		115
154	Thermosphere extension of the Whole Atmosphere Community Climate Model. <i>Journal of Geophysical Research</i> , <b>2010</b> , 115, n/a-n/a		113
153	Seasonal and quasi-biennial variations in the migrating diurnal tide observed by Thermosphere, Ionosphere, Mesosphere, Energetics and Dynamics (TIMED). <i>Journal of Geophysical Research</i> , <b>2009</b> , 114,		104
152	Hydrodynamic planetary thermosphere model: 1. Response of the Earth's thermosphere to extreme solar EUV conditions and the significance of adiabatic cooling. <i>Journal of Geophysical Research</i> , <b>2008</b> , 113,		99
151	Tidal perturbations and variability in the mesopause region over Fort Collins, CO (41N, 105W): Continuous multi-day temperature and wind lidar observations. <i>Geophysical Research Letters</i> , <b>2004</b> , 31,	4.9	90
150	The influence of atmospheric tide and planetary wave variability during sudden stratosphere warmings on the low latitude ionosphere. <i>Journal of Geophysical Research: Space Physics</i> , <b>2013</b> , 118, 5333-5347	2.6	86
149	Variability and predictability of the space environment as related to lower atmosphere forcing. <i>Space Weather</i> , <b>2016</b> , 14, 634-658	3.7	84
148	Concentric gravity waves in the mesosphere generated by deep convective plumes in the lower atmosphere near Fort Collins, Colorado. <i>Journal of Geophysical Research</i> , <b>2009</b> , 114,		84

147	Simulations of solar and lunar tidal variability in the mesosphere and lower thermosphere during sudden stratosphere warmings and their influence on the low-latitude ionosphere. <i>Journal of Geophysical Research</i> , <b>2012</b> , 117, n/a-n/a		82
146	Short-term variability in the migrating diurnal tide caused by interactions with the quasi 2 day wave. <i>Journal of Geophysical Research</i> , <b>2011</b> , 116,		81
145	Observations of the 5-day wave in the mesosphere and lower thermosphere. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , <b>2006</b> , 68, 323-339	2	80
144	Day-to-day ionospheric variability due to lower atmosphere perturbations. <i>Geophysical Research Letters</i> , <b>2013</b> , 40, 665-670	4.9	76
143	Local heating/cooling of the mesosphere due to gravity wave and tidal coupling. <i>Geophysical Research Letters</i> , <b>1998</b> , 25, 2941-2944	4.9	76
142	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
141	The neutral dynamics during the 2009 sudden stratosphere warming simulated by different whole atmosphere models. <i>Journal of Geophysical Research: Space Physics</i> , <b>2014</b> , 119, 1306-1324	2.6	71
140	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
139	Gravity waves simulated by high-resolution Whole Atmosphere Community Climate Model. <i>Geophysical Research Letters</i> , <b>2014</b> , 41, 9106-9112	4.9	68
138	Assessment of the non-hydrostatic effect on the upper atmosphere using a general circulation model (GCM). <i>Geophysical Research Letters</i> , <b>2008</b> , 35,	4.9	67
137	Ionosphere variability during the 2009 SSW: Influence of the lunar semidiurnal tide and mechanisms producing electron density variability. <i>Journal of Geophysical Research: Space Physics</i> , <b>2014</b> , 119, 3828-3843	2.6	66
136	Local mean state changes due to gravity wave breaking modulated by the diurnal tide. <i>Journal of Geophysical Research</i> , <b>2000</b> , 105, 12381-12396		66
135	Mesopause structure from Thermosphere, Ionosphere, Mesosphere, Energetics, and Dynamics (TIMED)/Sounding of the Atmosphere Using Broadband Emission Radiometry (SABER) observations. <i>Journal of Geophysical Research</i> , <b>2007</b> , 112,		61
134	Attribution of ionospheric vertical plasma drift perturbations to large-scale waves and the dependence on solar activity. <i>Journal of Geophysical Research: Space Physics</i> , <b>2013</b> , 118, 2452-2465	2.6	60
133	Global structure and long-term variations of zonal mean temperature observed by TIMED/SABER. <i>Journal of Geophysical Research</i> , <b>2007</b> , 112,		57
132	Numerical investigation of the quasi 2-day wave in the mesosphere and lower thermosphere. <i>Journal of Geophysical Research</i> , <b>2012</b> , 117, n/a-n/a		55
131	Dynamical coupling of the stratosphere and mesosphere in the 2002 Southern Hemisphere major stratospheric sudden warming. <i>Geophysical Research Letters</i> , <b>2005</b> , 32,	4.9	53
130	Response of the thermosphere and ionosphere to an ultra fast Kelvin wave. <i>Journal of Geophysical Research</i> , <b>2010</b> , 115, n/a-n/a		52

129	The lower thermosphere during the northern hemisphere winter of 2009: A modeling study using high-altitude data assimilation products in WACCM-X. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2013</b> , 118, 8954-8968	4.4	51
128	Global distribution and interannual variations of mesospheric and lower thermospheric neutral wind diurnal tide: 1. Migrating tide. <i>Journal of Geophysical Research</i> , <b>2008</b> , 113, n/a-n/a		51
127	Numerical modeling of the large-scale neutral and plasma responses to the body forces created by the dissipation of gravity waves from 6 h of deep convection in Brazil. <i>Journal of Geophysical Research: Space Physics</i> , <b>2013</b> , 118, 2593-2617	2.6	49
126	Gravity wave variations during the 2009 stratospheric sudden warming as revealed by ECMWF-T799 and observations. <i>Geophysical Research Letters</i> , <b>2010</b> , 37, n/a-n/a	4.9	48
125	Stratospheric gravity wave characteristics and seasonal variations observed by lidar at the South Pole and Rothera, Antarctica. <i>Journal of Geophysical Research</i> , <b>2009</b> , 114,		47
124	Comparative study of short-term diurnal tidal variability. <i>Journal of Geophysical Research</i> , <b>2007</b> , 112,		45
123	Whole Atmosphere Simulation of Anthropogenic Climate Change. <i>Geophysical Research Letters</i> , <b>2018</b> , 45, 1567-1576	4.9	44
122	Temperature changes due to gravity wave saturation. <i>Journal of Geophysical Research</i> , <b>2000</b> , 105, 12329-12336	4.0	
121	Large amplitude perturbations in mesospheric OH Meinel and 87-Km Na lidar temperatures around the autumnal equinox. <i>Geophysical Research Letters</i> , <b>2001</b> , 28, 1899-1902	4.9	40
120	On the day-to-day variation of the equatorial electrojet during quiet periods. <i>Journal of Geophysical Research: Space Physics</i> , <b>2014</b> , 119, 6966-6980	2.6	39
119	Numerical modeling of the global changes to the thermosphere and ionosphere from the dissipation of gravity waves from deep convection. <i>Journal of Geophysical Research: Space Physics</i> , <b>2014</b> , 119, 7762-7793	2.6	39
118	Global distribution and interannual variations of mesospheric and lower thermospheric neutral wind diurnal tide: 2. Nonmigrating tide. <i>Journal of Geophysical Research</i> , <b>2008</b> , 113, n/a-n/a		39
117	Day-to-day migrating and nonmigrating tidal variability due to the six-day planetary wave. <i>Journal of Geophysical Research</i> , <b>2012</b> , 117, n/a-n/a		38
116	Atmospheric semidiurnal lunar tide climatology simulated by the Whole Atmosphere Community Climate Model. <i>Journal of Geophysical Research</i> , <b>2012</b> , 117, n/a-n/a		38
115	A Numerical Study of Gravity Wave Breaking and Impacts on Turbulence and Mean State. <i>Journals of the Atmospheric Sciences</i> , <b>1999</b> , 56, 2152-2177	2.1	38
114	Ensemble data assimilation in the Whole Atmosphere Community Climate Model. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2014</b> , 119, 9793-9809	4.4	36
113	Short-term variation of the $s = 1$ nonmigrating semidiurnal tide during the 2002 stratospheric sudden warming. <i>Journal of Geophysical Research</i> , <b>2009</b> , 114,		36
112	Causes of the longitudinal differences in the equatorial vertical E B drift during the 2013 SSW period as simulated by the TIME-GCM. <i>Journal of Geophysical Research: Space Physics</i> , <b>2015</b> , 120, 5117-5136	2.6	35

111	Responses of mesosphere and lower thermosphere temperatures to gravity wave forcing during stratospheric sudden warming. <i>Geophysical Research Letters</i> , <b>2010</b> , 37, n/a-n/a	4.9	35
110	Overview and summary of the Spread F Experiment (SpreadFEx). <i>Annales Geophysicae</i> , <b>2009</b> , 27, 2141-2155		35
109	Error Growth in a Whole Atmosphere Climate Model. <i>Journals of the Atmospheric Sciences</i> , <b>2009</b> , 66, 173-186		35
108	Quasi-two-day wave coupling of the mesosphere and lower thermosphere-ionosphere in the TIME-GCM: Two-day oscillations in the ionosphere. <i>Journal of Geophysical Research</i> , <b>2012</b> , 117, n/a-n/a		34
107	Climatology of mesopause region temperature, zonal wind, and meridional wind over Fort Collins, Colorado (41°N, 105°W), and comparison with model simulations. <i>Journal of Geophysical Research</i> , <b>2008</b> , 113,		34
106	Analysis and Hindcast Experiments of the 2009 Sudden Stratospheric Warming in WACCMX+DART. <i>Journal of Geophysical Research: Space Physics</i> , <b>2018</b> , 123, 3131-3153	2.6	34
105	Tidal variability in the mesosphere and lower thermosphere due to the El Niño Southern Oscillation. <i>Geophysical Research Letters</i> , <b>2012</b> , 39, n/a-n/a	4.9	33
104	Wavenumber broadening of the quasi 2 day planetary wave in the ionosphere. <i>Journal of Geophysical Research: Space Physics</i> , <b>2013</b> , 118, 3515-3526	2.6	33
103	Observational study of the 4-day wave in the mesosphere preceding the sudden stratospheric warming events during 1995 and 2002. <i>Geophysical Research Letters</i> , <b>2005</b> , 32,	4.9	33
102	Numerical simulation of the 6 day wave effects on the ionosphere: Dynamo modulation. <i>Journal of Geophysical Research: Space Physics</i> , <b>2016</b> , 121, 10,103	2.6	33
101	First Results From the Ionospheric Extension of WACCM-X During the Deep Solar Minimum Year of 2008. <i>Journal of Geophysical Research: Space Physics</i> , <b>2018</b> , 123, 1534-1553	2.6	32
100	Influence of the El Niño Southern Oscillation on the middle and upper atmosphere. <i>Journal of Geophysical Research: Space Physics</i> , <b>2013</b> , 118, 2744-2755	2.6	32
99	Waiting-Time Distributions in Lattice Models of Solar Flares. <i>Astrophysical Journal</i> , <b>2001</b> , 557, 891-896	4.7	31
98	Observation of the neutral-ion coupling through 6 day planetary wave. <i>Journal of Geophysical Research: Space Physics</i> , <b>2014</b> , 119, 10,376	2.6	30
97	On the large wind shear and fast meridional transport above the mesopause. <i>Geophysical Research Letters</i> , <b>2007</b> , 34,	4.9	30
96	Impact of semidiurnal tidal variability during SSWs on the mean state of the ionosphere and thermosphere. <i>Journal of Geophysical Research: Space Physics</i> , <b>2016</b> , 121, 8077-8088	2.6	29
95	Short-term nonmigrating tide variability in the mesosphere, thermosphere, and ionosphere. <i>Journal of Geophysical Research: Space Physics</i> , <b>2016</b> , 121, 3621-3633	2.6	29
94	Mesospheric planetary waves at northern hemisphere fall equinox. <i>Geophysical Research Letters</i> , <b>2001</b> , 28, 1903-1906	4.9	28

93	Large wind shears and stabilities in the mesopause region observed by Na wind-temperature lidar at midlatitude. <i>Journal of Geophysical Research</i> , <b>2010</b> , 115, n/a-n/a		27
92	Parameterization of the inertial gravity waves and generation of the quasi-biennial oscillation. <i>Journal of Geophysical Research</i> , <b>2012</b> , 117, n/a-n/a		26
91	Coupling of Stratospheric Warmings with Mesospheric Coolings in Observations and Simulations. <i>Journal of Climate</i> , <b>2018</b> , 31, 1107-1133	4.4	25
90	Nonlinear interactions between gravity waves with different wavelengths and diurnal tide. <i>Journal of Geophysical Research</i> , <b>2008</b> , 113,		25
89	Evidence of a gravity wave breaking event and the estimation of the wave characteristics from sodium lidar observation over Fort Collins, CO (41°N, 105°W). <i>Geophysical Research Letters</i> , <b>2007</b> , 34,	4.9	24
88	Analysis of a temperature inversion event in the lower mesosphere. <i>Journal of Geophysical Research</i> , <b>2004</b> , 109,		24
87	Variations of the nighttime thermospheric mass density at low and middle latitudes. <i>Journal of Geophysical Research</i> , <b>2010</b> , 115, n/a-n/a		23
86	Sodium lidar-observed strong inertia-gravity wave activities in the mesopause region over Fort Collins, Colorado (41°N, 105°W). <i>Journal of Geophysical Research</i> , <b>2007</b> , 112,		23
85	Probability distribution function for self-organization of shear flows. <i>Physics of Plasmas</i> , <b>2009</b> , 16, 052304.1		22
84	Seasonal oscillations of middle atmosphere temperature observed by Rayleigh lidars and their comparisons with TIMED/SABER observations. <i>Journal of Geophysical Research</i> , <b>2009</b> , 114,		22
83	Global structure and seasonal variability of the migrating terdiurnal tide in the mesosphere and lower thermosphere. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , <b>2013</b> , 105-106, 191-198	2	21
82	Study of the thermospheric and ionospheric response to the 2009 sudden stratospheric warming using TIME-GCM and GSM TIP models: First results. <i>Journal of Geophysical Research: Space Physics</i> , <b>2015</b> , 120, 7873-7888	2.6	21
81	Momentum balance and gravity wave forcing in the mesosphere and lower thermosphere. <i>Geophysical Research Letters</i> , <b>2009</b> , 36, n/a-n/a	4.9	21
80	Whole Atmosphere Climate Change: Dependence on Solar Activity. <i>Journal of Geophysical Research: Space Physics</i> , <b>2019</b> , 124, 3799-3809	2.6	20
79	Explaining solar cycle effects on composition as it relates to the winter anomaly. <i>Journal of Geophysical Research: Space Physics</i> , <b>2015</b> , 120, 5890-5898	2.6	20
78	Zonal-mean global teleconnection from 15 to 110 km derived from SABER and WACCM. <i>Journal of Geophysical Research</i> , <b>2012</b> , 117, n/a-n/a		20
77	Responses of polar mesospheric cloud brightness to stratospheric gravity waves at the South Pole and Rothera, Antarctica. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , <b>2009</b> , 71, 434-445	2	20
76	Geometrical properties of avalanches in self-organized critical models of solar flares. <i>Physical Review E</i> , <b>2002</b> , 65, 046125	2.4	20

75	Large Wind Shears and Their Implications for Diffusion in Regions With Enhanced Static Stability: The Mesopause and the Tropopause. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2017</b> , 122, 9579-9590	4.4	19
74	Westward traveling planetary wave events in the lower thermosphere during solar minimum conditions simulated by SD-WACCM-X. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , <b>2014</b> , 119, 11-26	2	19
73	Comparison of diurnal tide in models and ground-based observations during the 2005 equinox CAWSES tidal campaign. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , <b>2012</b> , 78-79, 19-30	2	19
72	On the self-organizing process of large scale shear flows. <i>Physics of Plasmas</i> , <b>2013</b> , 20, 092306	2.1	18
71	The Influence of Internal Atmospheric Variability on the Ionosphere Response to a Geomagnetic Storm. <i>Geophysical Research Letters</i> , <b>2018</b> , 45, 4578-4585	4.9	18
70	Ionospheric Variability Due to Tides and Quasi-Two Day Wave Interactions. <i>Journal of Geophysical Research: Space Physics</i> , <b>2018</b> , 123, 1554-1565	2.6	17
69	WACCM-X Simulation of Tidal and Planetary Wave Variability in the Upper Atmosphere. <i>Geophysical Monograph Series</i> , <b>2014</b> , 181-199	1.1	17
68	Mesospheric surf zone and temperature inversion layers in early November 1994. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , <b>2006</b> , 68, 1752-1763	2	17
67	The quasi 2 day wave activities during 2007 austral summer period as revealed by Whole Atmosphere Community Climate Model. <i>Journal of Geophysical Research: Space Physics</i> , <b>2016</b> , 121, 2743-2754	2.6	17
66	Evidence of nonlinear interaction between quasi 2 day wave and quasi-stationary wave. <i>Journal of Geophysical Research: Space Physics</i> , <b>2015</b> , 120, 1256-1263	2.6	16
65	Large winds and wind shears caused by the nonlinear interactions between gravity waves and tidal backgrounds in the mesosphere and lower thermosphere. <i>Journal of Geophysical Research: Space Physics</i> , <b>2014</b> , 119, 7698-7708	2.6	16
64	Large-scale ionospheric disturbances due to the dissipation of convectively-generated gravity waves over Brazil. <i>Journal of Geophysical Research: Space Physics</i> , <b>2013</b> , 118, 2419-2427	2.6	16
63	Characterization of the semi-annual-oscillation in mesospheric temperatures at low-latitudes. <i>Advances in Space Research</i> , <b>2005</b> , 35, 2037-2043	2.4	16
62	Influence of the sudden stratospheric warming on quasi-2-day waves. <i>Atmospheric Chemistry and Physics</i> , <b>2016</b> , 16, 4885-4896	6.8	15
61	Simulation of the 21 August 2017 Solar Eclipse Using the Whole Atmosphere Community Climate Model-eXtended. <i>Geophysical Research Letters</i> , <b>2018</b> , 45, 3793-3800	4.9	15
60	Momentum budget of the migrating diurnal tide in the Whole Atmosphere Community Climate Model at vernal equinox. <i>Journal of Geophysical Research</i> , <b>2012</b> , 117, n/a-n/a		15
59	Observation of local tidal variability and instability, along with dissipation of diurnal tidal harmonics in the mesopause region over Fort Collins, Colorado (41°N, 105°W). <i>Journal of Geophysical Research</i> , <b>2009</b> , 114,		15
58	The Long-Term Trends of Nocturnal Mesopause Temperature and Altitude Revealed by Na Lidar Observations Between 1990 and 2018 at Midlatitude. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2019</b> , 124, 5970-5980	4.4	14

57	Global Modeling of Equatorial Spread F with SAMI3/WACCM-X. <i>Geophysical Research Letters</i> , <b>2020</b> , 47, e2020GL088258	4.9	14
56	Estimation of the equivalent Rayleigh friction in mesosphere/lower thermosphere region from the migrating diurnal tides observed by TIMED. <i>Journal of Geophysical Research</i> , <b>2009</b> , 114,		14
55	Neutral Winds and Densities at the Bottomside of the F Layer from Primary and Secondary Gravity Waves from Deep Convection <b>2011</b> , 131-139		14
54	Temporal Variability of Atomic Hydrogen From the Mesopause to the Upper Thermosphere. <i>Journal of Geophysical Research: Space Physics</i> , <b>2018</b> , 123, 1006-1017	2.6	13
53	Traveling planetary-scale waves in the lower thermosphere: Effects on neutral density and composition during solar minimum conditions. <i>Journal of Geophysical Research: Space Physics</i> , <b>2016</b> , 121, 1780-1801	2.6	13
52	Coordinated lidar and TIMED observations of the quasi-two-day wave during August 2002-2004 and possible quasi-biennial oscillation influence. <i>Advances in Space Research</i> , <b>2008</b> , 41, 1463-1471	2.4	12
51	Dynamical processes related to the atomic oxygen equinox transition. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , <b>2004</b> , 66, 769-779	2	12
50	Application of data assimilation in the Whole Atmosphere Community Climate Model to the study of day-to-day variability in the middle and upper atmosphere. <i>Geophysical Research Letters</i> , <b>2013</b> , 40, 4469-4474	4.9	11
49	Fast meridional transport in the lower thermosphere by planetary-scale waves. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , <b>2010</b> , 72, 1372-1378	2	11
48	Large-scale gravity wave perturbations in the mesopause region above Northern Hemisphere midlatitudes during autumnal equinox: a joint study by the USU Na lidar and Whole Atmosphere Community Climate Model. <i>Annales Geophysicae</i> , <b>2017</b> , 35, 181-188	2	10
47	The whole atmosphere response to changes in the Earth's magnetic field from 1900 to 2000: An example of top-down vertical coupling. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2016</b> , 121, 7781-7800	4.4	10
46	Quantifying gravity wave forcing using scale invariance. <i>Nature Communications</i> , <b>2019</b> , 10, 2605	17.4	9
45	Information Length as a Useful Index to Understand Variability in the Global Circulation. <i>Mathematics</i> , <b>2020</b> , 8, 299	2.3	9
44	Simulations of the Boreal Winter Upper Mesosphere and Lower Thermosphere With Meteorological Specifications in SD-WACCM-X. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2018</b> , 123, 3791-3811	4.4	9
43	Modeled and observed equatorial thermospheric winds and temperatures. <i>Journal of Geophysical Research: Space Physics</i> , <b>2015</b> , 120, 5832-5844	2.6	9
42	On the wave number 2 eastward propagating quasi 2 day wave at middle and high latitudes. <i>Journal of Geophysical Research: Space Physics</i> , <b>2017</b> , 122, 4489-4499	2.6	8
41	Preliminary Evidence of Madden-Julian Oscillation Effects on Ultrafast Tropical Waves in the Thermosphere. <i>Journal of Geophysical Research: Space Physics</i> , <b>2020</b> , 125, e2019JA027649	2.6	8
40	Day-to-Day Variability of Prereversal Enhancement in the Vertical Ion Drift in Response to Large-Scale Forcing From the Lower Atmosphere. <i>Space Weather</i> , <b>2020</b> , 18, e2019SW002334	3.7	8



39	Effect of a solar flare on a traveling atmospheric disturbance. <i>Journal of Geophysical Research</i> , <b>2012</b> , 117, n/a-n/a		8
38	Continuum analysis of an avalanche model for solar flares. <i>Physical Review E</i> , <b>2002</b> , 66, 056111	2.4	8
37	The quasi-2 day wave activities during 2007 boreal summer period as revealed by Whole Atmosphere Community Climate Model. <i>Journal of Geophysical Research: Space Physics</i> , <b>2016</b> , 121, 7256-7268	2.6	8
36	Lower-thermosphere-osphere (LTI) quantities: current status of measuring techniques and models. <i>Annales Geophysicae</i> , <b>2021</b> , 39, 189-237	2	8
35	Simulations of large winds and wind shears induced by gravity wave breaking in the mesosphere and lower thermosphere (MLT) region. <i>Annales Geophysicae</i> , <b>2014</b> , 32, 543-552	2	7
34	Latitudinal variations of middle thermosphere: Observations and modeling. <i>Journal of Geophysical Research</i> , <b>2011</b> , 116, n/a-n/a		7
33	Spectral Properties of One-Dimensional Diffusive Systems Subject to Stochastic Forcing. <i>Journals of the Atmospheric Sciences</i> , <b>2007</b> , 64, 579-593	2.1	7
32	Comparison of the auroral E region neutral winds derived with the European Incoherent Scatter radar and predicted by the National Center for Atmospheric Research Thermosphere-ionosphere-mesosphere-electrodynamics general circulation model. <i>Journal of Geophysical Research</i> , <b>2001</b> , 106, 24691-24708		7
31	Azimuthal averaging/reconstruction filtering techniques for finite-difference general circulation models in spherical geometry. <i>Geoscientific Model Development</i> , <b>2021</b> , 14, 859-873	6.3	7
30	Interhemispheric transport of metallic ions within ionospheric sporadic E layers by the lower thermospheric meridional circulation. <i>Atmospheric Chemistry and Physics</i> , <b>2021</b> , 21, 4219-4230	6.8	7
29	Error growth in the Mesosphere and Lower Thermosphere Based on Hindcast Experiments in a Whole Atmosphere Model. <i>Space Weather</i> , <b>2019</b> , 17, 1442-1460	3.7	6
28	Vertical Structure of Terdiurnal Tides in the Antarctic MLT Region: 15-Year Observation Over Syowa (69°S, 39°E). <i>Geophysical Research Letters</i> , <b>2019</b> , 46, 2364-2371	4.9	6
27	Quiet-Time Day-to-Day Variability of Equatorial Vertical E-Drift From Atmosphere Perturbations at Dawn. <i>Journal of Geophysical Research: Space Physics</i> , <b>2020</b> , 125, e2020JA027824	2.6	6
26	On the fast zonal transport of the STS-121 space shuttle exhaust plume in the lower thermosphere. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , <b>2013</b> , 94, 19-27	2	6
25	Seasonal oscillations in mesospheric temperatures at low-latitudes. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , <b>2007</b> , 69, 2367-2378	2	6
24	Assimilation of Ionosphere Observations in the Whole Atmosphere Community Climate Model with Thermosphere-Ionosphere EXTension (WACCMX). <i>Journal of Geophysical Research: Space Physics</i> , <b>2020</b> , 125, e2020JA028251	2.6	6
23	Assessment of the Simulation of Gravity Waves Generation by a Tropical Cyclone in the High-Resolution WACCM and the WRF. <i>Journal of Advances in Modeling Earth Systems</i> , <b>2018</b> , 10, 2214-2227	2.7	6
22	Interhemispheric differences of mesosphere/lwer thermosphere winds and tides investigated from three whole-atmosphere models and meteor radar observations. <i>Atmospheric Chemistry and Physics</i> , <b>2021</b> , 21, 13855-13902	6.8	6

21	Investigating an Unusually Large 28-Day Oscillation in Mesospheric Temperature Over Antarctica Using Ground-Based and Satellite Measurements. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2019</b> , 124, 8576-8593	4.4	5
20	The spread F Experiment (SpreadFEx): Program overview and first results. <i>Earth, Planets and Space</i> , <b>2009</b> , 61, 411-430	2.9	5
19	Numerical Simulation of Mountain Waves over the Southern Andes. Part I: Mountain Wave and Secondary Wave Character, Evolutions, and Breaking. <i>Journals of the Atmospheric Sciences</i> , <b>2020</b> , 77, 4337-4356	2.1	5
18	Latitudinal Double-Peak Structure of Stationary Planetary Wave 1 in the Austral Winter Middle Atmosphere and Its Possible Generation Mechanism. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2018</b> , 123, 11,551	4.4	5
17	Ionospheric vertical plasma drift perturbations due to the quasi 2 day wave. <i>Journal of Geophysical Research: Space Physics</i> , <b>2015</b> , 120, 3941-3948	2.6	4
16	Climate Changes in the Upper Atmosphere: Contributions by the Changing Greenhouse Gas Concentrations and Earth's Magnetic Field From the 1960s to 2010s. <i>Journal of Geophysical Research: Space Physics</i> , <b>2021</b> , 126, e2020JA029067	2.6	4
15	Statistical study of medium-scale traveling ionospheric disturbances in low-latitude ionosphere using an automatic algorithm. <i>Earth, Planets and Space</i> , <b>2021</b> , 73,	2.9	4
14	Gravity Wave Variation from the Troposphere to the Lower Thermosphere during a Stratospheric Sudden Warming Event: A Case Study. <i>Scientific Online Letters on the Atmosphere</i> , <b>2017</b> , 13A, 24-30	2.1	3
13	Gravity-wave-perturbed wind shears derived from SABER temperature observations. <i>Atmospheric Chemistry and Physics</i> , <b>2020</b> , 20, 14437-14456	6.8	3
12	Equatorial and Low Latitude Ionospheric Effects During Sudden Stratospheric Warming Events. <i>Space Sciences Series of ISSI</i> , <b>2011</b> , 385-417	0.1	3
11	Observations and Simulations of Eddy Diffusion and Tidal Effects on the Semiannual Oscillation in the Ionosphere. <i>Journal of Geophysical Research: Space Physics</i> , <b>2017</b> , 122, 10,502	2.6	2
10	Theoretical study of the ionospheric plasma cave in the equatorial ionization anomaly region. <i>Journal of Geophysical Research: Space Physics</i> , <b>2014</b> , 119, 10,324	2.6	2
9	Migrating Semidiurnal Tide During the September Equinox Transition in the Northern Hemisphere. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2021</b> , 126, e2020JD033822	4.4	2
8	Intermittency and self-organization in turbulent flows. <i>Physica Scripta</i> , <b>2010</b> , T142, 014053	2.6	1
7	Numerical simulation of mountain waves over the southern Andes, Part 2: Momentum fluxes and wave/mean-flow interactions. <i>Journals of the Atmospheric Sciences</i> , <b>2021</b> ,	2.1	1
6	Day-to-Day Variability of Diurnal Tide in the Mesosphere and Lower Thermosphere Driven From Below. <i>Journal of Geophysical Research: Space Physics</i> , <b>2021</b> , 126, e2019JA027759	2.6	1
5	Simulations of Zonal Mean Gravity Wave Drag Short-Term Variability in the Southern Hemisphere Mesosphere. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2018</b> , 123, 11,849	4.4	1
4	Possible modulation of migrating diurnal tide by latitudinal gradient of zonal wind observed by SABER/TIMED. <i>Science China Earth Sciences</i> , <b>2016</b> , 59, 408-417	4.6	0

- 3 Self-consistent global transport of metallic ions with WACCM-X. *Atmospheric Chemistry and Physics*, **2021**, 21, 15619-15630 6.8 o
- 2 A Comparative Study of Ionospheric Day-To-Day Variability Over Wuhan Based on Ionosonde Measurements and Model Simulations. *Journal of Geophysical Research: Space Physics*, **2021**, 126, e2020JA028589 2.6 89
- 1 The Molecular Oxygen Density Structure of the Lower Thermosphere as Seen by GOLD and Models. *Geophysical Research Letters*, 4.9