Jm Forbes

List of Publications by Citations

323 papers	13,892 citations	62 h-index	101 g-index
341 ext. papers	14,896 ext. citations	3.6 avg, IF	6.63 L-index

#	Paper	IF	Citations
323	Migrating and nonmigrating diurnal tides in the middle and upper atmosphere excited by tropospheric latent heat release. *Journal of Geophysical Research*, **2002**, 107, ACL 6-1		550
322	Variability of the ionosphere. *Journal of Atmospheric and Solar-Terrestrial Physics*, **2000**, 62, 685-693	2	359
321	Migrating and nonmigrating semidiurnal tides in the upper atmosphere excited by tropospheric latent heat release. *Journal of Geophysical Research*, **2003**, 108,		354
320	Atmospheric tides: 1. Model description and results for the solar diurnal component. *Journal of Geophysical Research*, **1982**, 87, 5222-5240		350
319	GSWM-98: Results for migrating solar tides. *Journal of Geophysical Research*, **1999**, 104, 6813-6827		272
318	Atmospheric tide: 2. The solar and lunar semidiurnal components. *Journal of Geophysical Research*, **1982**, 87, 5241-5252		269
317	The equatorial electrojet. *Reviews of Geophysics*, **1981**, 19, 469	23.1	258
316	Tidal variability in the ionospheric dynamo region. *Journal of Geophysical Research*, **2008**, 113, n/a-n/a		246
315	On modeling migrating solar tides. *Geophysical Research Letters*, **1995**, 22, 893-896	4.9	244
314	Theoretical studies of atmospheric tides. *Reviews of Geophysics*, **1979**, 17, 1951	23.1	192
313	Monthly tidal temperatures 20–120 km from TIMED/SABER. *Journal of Geophysical Research*, **2006**, 111,		171
312	Tropospheric tides from 80 to 400 km: Propagation, interannual variability, and solar cycle effects. *Journal of Geophysical Research*, **2009**, 114,		162
311	Tidal and Planetary Waves. *Geophysical Monograph Series*, **2013**, 67-87	1.1	156
310	Global thermospheric neutral density and wind response to the severe 2003 geomagnetic storms from CHAMP accelerometer data. *Journal of Geophysical Research*, **2005**, 110,		156
309	Monthly simulations of the solar semidiurnal tide in the mesosphere and lower thermosphere. *Journal of Atmospheric and Solar-Terrestrial Physics*, **1989**, 51, 649-661		154
308	Troposphere-thermosphere tidal coupling as measured by the SABER instrument on TIMED during July–September 2002. *Journal of Geophysical Research*, **2006**, 111,		141
307	Thermosphere density response to the 20–21 November 2003 solar and geomagnetic storm from CHAMP and GRACE accelerometer data. *Journal of Geophysical Research*, **2006**, 111,		134

306	Evidence for stratosphere sudden warming-ionosphere coupling due to vertically propagating tides. *Geophysical Research Letters*, **2010**, 37, n/a-n/a	4.9	132
305	Density and Winds in the Thermosphere Deduced from Accelerometer Data. *Journal of Spacecraft and Rockets*, **2007**, 44, 1210-1219	1.5	132
304	Mars Global Surveyor radio science electron density profiles : Neutral atmosphere implications. *Geophysical Research Letters*, **2001**, 28, 3091-3094	4.9	129
303	Quasi 16-day oscillation in the ionosphere. *Geophysical Research Letters*, **1992**, 19, 981-984	4.9	126
302	Quasi 16-day oscillation in the mesosphere and lower thermosphere. *Journal of Geophysical Research*, **1995**, 100, 9149		122
301	Rotating solar coronal holes and periodic modulation of the upper atmosphere. *Geophysical Research Letters*, **2008**, 35,	4.9	119
300	Nonmigrating diurnal tides in the thermosphere. *Journal of Geophysical Research*, **2003**, 108,		119
299	Nonlinear interactions in the upper atmosphere: The s = 1 and s = 3 nonmigrating semidiurnal tides. *Journal of Geophysical Research*, **2002**, 107, SIA 3-1-SIA 3-15		116
298	Numerical investigation of the propagation of the quasi-two-day wave into the lower thermosphere. *Journal of Geophysical Research*, **1993**, 98, 23193		115
297	Diurnal propagating tide in the presence of mean winds and dissipation : a numerical investigation. *Planetary and Space Science*, **1988**, 36, 579-590	2	114
296	Solar Tides as Revealed by Measurements of Mesosphere Temperature by the MLS Experiment on UARS. *Journals of the Atmospheric Sciences*, **2006**, 63, 1776-1797	2.1	113
295	First results from the meteor radar at South Pole: A large 12-hour oscillation with zonal wavenumber one. *Geophysical Research Letters*, **1995**, 22, 3247-3250	4.9	109
294	Tidal propagation of deep tropical cloud signatures into the thermosphere from TIMED observations. *Geophysical Research Letters*, **2008**, 35,	4.9	103
293	Thermospheric density oscillations due to periodic solar wind high-speed streams. *Journal of Geophysical Research*, **2008**, 113, n/a-n/a		102
292	Climatology of upward propagating diurnal and semidiurnal tides in the thermosphere. *Journal of Geophysical Research*, **2011**, 116, n/a-n/a		100
291	Interactions between Gravity Waves and the Diurnal Tide in the Mesosphere and Lower Thermosphere. *Journal of the Meteorological Society of Japan*, **1991**, 69, 523-531	2.8	99
290	Lunar tide amplification during the January 2009 stratosphere warming event: Observations and theory. *Journal of Geophysical Research*, **2012**, 117, n/a-n/a		97
289	Acceleration, heating, and compositional mixing of the thermosphere due to upward propagating tides. *Journal of Geophysical Research*, **1993**, 98, 311-321		96

288	Atmospheric solar tides and their electrodynamic effects□. The equatorial electrojet. *Journal of Atmospheric and Solar-Terrestrial Physics*, **1976**, 38, 911-920		94
287	Surface-exosphere coupling due to thermal tides. *Geophysical Research Letters*, **2009**, 36, n/a-n/a	4.9	93
286	Ionosphere response to solar wind high-speed streams. *Geophysical Research Letters*, **2008**, 35,	4.9	93
285	Thermospheric dynamics during the March 22, 1979, magnetic storm: 1. Model simulations. *Journal of Geophysical Research*, **1987**, 92, 6045		93
284	Wave-driven variability in the ionosphere-thermosphere-mesosphere system from TIMED observations: What contributes to the □wave 4□. *Journal of Geophysical Research*, **2011**, 116, n/a-n/a		92
283	A 6.5-day westward propagating planetary wave: Origin and characteristics. *Journal of Geophysical Research*, **1997**, 102, 26173-26178		84
282	Thermal excitation of atmospheric tides due to insolation absorption by O3 and H2O. *Geophysical Research Letters*, **1978**, 5, 1013-1016	4.9	83
281	Middle atmosphere tides. *Journal of Atmospheric and Solar-Terrestrial Physics*, **1984**, 46, 1049-1067		81
280	Neutral density response to the solar flares of October and November, 2003. *Geophysical Research Letters*, **2006**, 33,	4.9	80
279	Nonmigrating tides in the thermosphere of Mars. *Journal of Geophysical Research*, **2002**, 107, 23-1-23-12		80
278	Tidal variability in the lower thermosphere: Comparison of Whole Atmosphere Model (WAM) simulations with observations from TIMED. *Geophysical Research Letters*, **2008**, 35,	4.9	79
277	Wave coupling between the lower and upper atmosphere: case study of an ultra-fast Kelvin Wave. *Journal of Atmospheric and Solar-Terrestrial Physics*, **2000**, 62, 1603-1621	2	79
276	Diurnal Kelvin wave in the atmosphere of Mars: Towards an understanding of □stationary□ density structures observed by the MGS accelerometer. *Geophysical Research Letters*, **2000**, 27, 3563-3566	4.9	78
275	Atmospheric solar tides and their electrodynamic effects□ The global Sq current system. *Journal of Atmospheric and Solar-Terrestrial Physics*, **1976**, 38, 897-910		74
274	Experiments with a lunar atmospheric tidal model. *Journal of Geophysical Research*, **1997**, 102, 13465-13471		73
273	Global thermospheric density variations caused by high-speed solar wind streams during the declining phase of solar cycle 23. *Journal of Geophysical Research*, **2008**, 113, n/a-n/a		71
272	Solar cycle variability of Mars dayside exospheric temperatures: Model evaluation of underlying thermal balances. *Geophysical Research Letters*, **2009**, 36,	4.9	70
271	A fully analytic, low- and middle-latitude ionospheric model. *Journal of Geophysical Research*, **1989**, 94, 1520		69

270	Solar rotation effects on the thermospheres of Mars and Earth. *Science*, **2006**, 312, 1366-8	33.3	68
269	The Ionospheric Connection Explorer Mission: Mission Goals and Design. *Space Science Reviews*, **2018**, 214, 1	7.5	68
268	Effects of mean winds and dissipation on the diurnal propagating tide: An analytic approach. *Planetary and Space Science*, **1989**, 37, 197-209	2	67
267	Global transport and localized layering of metallic ions in the upper atmospherer. *Annales Geophysicae*, **1999**, 17, 190-209	2	66
266	Upper atmosphere tidal oscillations due to latent heat release in the tropical troposphere. *Annales Geophysicae*, **1997**, 15, 1165-1175	2	65
265	Solar Diurnal Tide in the Thermosphere. *Journals of the Atmospheric Sciences*, **1976**, 33, 2226-2241	2.1	64
264	Artificially created holes in the ionosphere. *Journal of Geophysical Research*, **1978**, 83, 151-163		64
263	Intra-annual variability of the low-latitude ionosphere due to nonmigrating tides. *Geophysical Research Letters*, **2008**, 35,	4.9	63
262	Thermosphere density variations due to the 15–24 April 2002 solar events from CHAMP/STAR accelerometer measurements. *Journal of Geophysical Research*, **2005**, 110,		63
261	Planetary waves observed by TIMED/SABER in coupling the stratosphere–mesosphere–lower thermosphere during the winter of 2003/2004: Part 2—Altitude and latitude planetary wave structure. *Journal of Atmospheric and Solar-Terrestrial Physics*, **2009**, 71, 75-87	2	62
260	Global and seasonal distribution of gravity wave activity in Mars' lower atmosphere derived from MGS radio occultation data. *Geophysical Research Letters*, **2006**, 33, n/a-n/a	4.9	62
259	Recent progress in tidal modelling. *Journal of Atmospheric and Solar-Terrestrial Physics*, **1989**, 51, 663-671		60
258	Longitudinal variation of tides in the MLT region: 2. Relative effects of solar radiative and latent heating. *Journal of Geophysical Research*, **2010**, 115, n/a-n/a		59
257	A solar terminator wave in thermosphere neutral densities measured by the CHAMP satellite. *Geophysical Research Letters*, **2008**, 35,	4.9	59
256	Observations of the ionospheric response to the 15 December 2006 geomagnetic storm: Long-duration positive storm effect. *Journal of Geophysical Research*, **2009**, 114, n/a-n/a		58
255	Longitudinal variation of tides in the MLT region: 1. Tides driven by tropospheric net radiative heating. *Journal of Geophysical Research*, **2010**, 115, n/a-n/a		57
254	A climatology of tides in the Antarctic mesosphere and lower thermosphere. *Journal of Geophysical Research*, **2006**, 111,		57
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251	Thermospheric extensions of the classical expansion functions for semidiurnal tides. *Journal of Geophysical Research*, **1982**, 87, 5253-5259		56
250	Evidence for nonlinear coupling of planetary waves and tides in the Antarctic mesopause. *Journal of Geophysical Research*, **1997**, 102, 4437-4446		55
249	On the interactions between gravity waves and the diurnal propagating tide. *Planetary and Space Science*, **1991**, 39, 1249-1257	2	55
248	Quasi 2-day oscillation of the ionosphere: A statistical study. *Journal of Atmospheric and Solar-Terrestrial Physics*, **1997**, 59, 1025-1034	2	54
247	Planetary Waves in the Thermosphere-Ionosphere System.. *Journal of Geomagnetism and Geoelectricity*, **1996**, 48, 91-98		54
246	The quasi 16-day oscillations in the mesosphere and lower thermosphere at Saskatoon (52°N, 107°W), 1980–1996. *Journal of Geophysical Research*, **2000**, 105, 2125-2138		53
245	Global observation of traveling atmospheric disturbances (TADs) in the thermosphere. *Geophysical Research Letters*, **2007**, 34,	4.9	52
244	Impacts of vertically propagating tides on the mean state of the ionosphere-thermosphere system. *Journal of Geophysical Research: Space Physics*, **2014**, 119, 2197-2213	2.6	51
243	Lunar semidiurnal tide in the thermosphere under solar minimum conditions. *Journal of Geophysical Research: Space Physics*, **2013**, 118, 1788-1801	2.6	51
242	Diurnal tidal variability in the upper mesosphere and lower thermosphere. *Annales Geophysicae*, **1997**, 15, 1176-1186	2	51
241	Solar flux variability of Mars' exosphere densities and temperatures. *Geophysical Research Letters*, **2008**, 35,	4.9	51
240	Dynamics of the Thermosphere. *Journal of the Meteorological Society of Japan*, **2007**, 85B, 193-213	2.8	50
239	Monthly simulations of the lunar semi-diurnal tide. *Journal of Atmospheric and Solar-Terrestrial Physics*, **1994**, 56, 1591-1607		50
238	Thermospheric dynamics during the March 22, 1979, magnetic storm: 2. Comparisons of model predictions with observations. *Journal of Geophysical Research*, **1987**, 92, 6069		50
237	Thermospheric winds from the satellite electrostatic triaxial accelerometer system. *Journal of Geophysical Research*, **1985**, 90, 6543		50
236	Mesosphere/lower thermosphere prevailing wind model. *Advances in Space Research*, **2004**, 34, 1755-1762	2.4	49
235	Relative intensities of middle atmosphere waves. *Journal of Geophysical Research*, **2009**, 114,		48

234	Density variability at scales typical of gravity waves observed in Mars' thermosphere by the MGS accelerometer. *Geophysical Research Letters*, **2006**, 33,	4.9	48
233	Effects of solar variability on thermosphere density from CHAMP accelerometer data. *Journal of Geophysical Research*, **2007**, 112, n/a-n/a		47
232	Diurnal tides from the troposphere to the lower mesosphere as deduced from TIMED/SABER satellite data and six global reanalysis data sets. *Journal of Geophysical Research*, **2012**, 117, n/a-n/a		46
231	Non-migrating tides in the ionosphere-thermosphere: In situ versus tropospheric sources. *Journal of Geophysical Research: Space Physics*, **2013**, 118, 2438-2451	2.6	46
230	Longitudinal variations in the F region ionosphere and the topside ionosphere-plasmasphere: Observations and model simulations. *Journal of Geophysical Research*, **2011**, 116, n/a-n/a		46
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227	The dynamic ionosphere over Arecibo: A theoretical investigation. *Journal of Geophysical Research*, **1986**, 91, 249		44
226	Thermospheric nitric oxide variability induced by nonmigrating tides. *Geophysical Research Letters*, **2008**, 35,	4.9	43
225	Seasonal-Latitudinal Structure of the Diurnal Thermospheric Tide. *Journals of the Atmospheric Sciences*, **1978**, 35, 148-159	2.1	43
224	Monthly mean climatology of the prevailing winds and tides in the Arctic mesosphere/lower thermosphere. *Annales Geophysicae*, **2004**, 22, 3395-3410	2	42
223	Magnetic storm response of lower thermosphere density. *Journal of Geophysical Research*, **1996**, 101, 2313-2319		41
222	Dynamics of the Antarctic and Arctic mesosphere and lower thermosphere regions□. The semidiurnal tide. *Journal of Atmospheric and Solar-Terrestrial Physics*, **1993**, 55, 843-855		41
221	Mean zonal acceleration and heating of the 70- to 100-km region. *Journal of Geophysical Research*, **1991**, 96, 1225-1238		41
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219	Diurnal propagating tides in the low-latitude middle atmosphere. *Journal of Atmospheric and Solar-Terrestrial Physics*, **1987**, 49, 153-164		40
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217	Lunar tide in the thermosphere and weakening of the northern polar vortex. *Geophysical Research Letters*, **2014**, 41, 8201-8207	4.9	39

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215	Anomalous behavior of the thermosphere during solar minimum observed by CHAMP and GRACE. *Journal of Geophysical Research*, **2010**, 115, n/a-n/a		38
214	Rapid response of the thermosphere to variations in Joule heating. *Journal of Geophysical Research*, **2009**, 114, n/a-n/a		38
213	Global distribution and climatological features of the 5–8-day planetary waves seen in the SABER/TIMED temperatures (2002–2007). *Journal of Atmospheric and Solar-Terrestrial Physics*, **2010**, 72, 26-37	2	38
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211	Dynamics of the Antarctic and Arctic mesosphere and lower thermosphere regions– The prevailing wind. *Journal of Atmospheric and Solar-Terrestrial Physics*, **1993**, 55, 827-841		38
210	Ionosphere response to recurrent geomagnetic activity: Local time dependency. *Journal of Geophysical Research*, **2010**, 115, n/a-n/a		37
209	Kelvin waves in stratosphere, mesosphere and lower thermosphere temperatures as observed by TIMED/SABER during 2002–2006. *Earth, Planets and Space*, **2009**, 61, 447-453	2.9	37
208	Solar terminator wave and its relation to the atmospheric tide. *Journal of Geophysical Research*, **2009**, 114, n/a-n/a		37
207	Some transient aspects of tidal propagation. *Journal of Geophysical Research*, **1991**, 96, 1215-1224		37
206	Tidal structure of the thermosphere at equinox. *Journal of Atmospheric and Solar-Terrestrial Physics*, **1978**, 40, 657-668		36
205	The quasi-6–day wave and its interactions with solar tides. *Journal of Geophysical Research: Space Physics*, **2017**, 122, 4764-4776	2.6	35
204	New perspectives on thermosphere tides: 1. Lower thermosphere spectra and seasonal-latitudinal structures. *Earth, Planets and Space*, **2014**, 66,	2.9	35
203	The quasi 2 day wave and spatial-temporal variability of the OH emission and ionosphere. *Journal of Geophysical Research*, **2012**, 117,		35
202	Properties of traveling atmospheric disturbances (TADs) inferred from CHAMP accelerometer observations. *Advances in Space Research*, **2009**, 43, 369-376	2.4	35
201	Planetary wave coupling from the stratosphere to the thermosphere during the 2002 Southern Hemisphere pre-stratwarm period. *Geophysical Research Letters*, **2005**, 32,	4.9	35
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196	Atmospheric solar tides and their electrodynamic effects—II. The polarization electric field. *Journal of Atmospheric and Solar-Terrestrial Physics*, **1977**, 39, 1369-1377		35
195	Quasi-two-day wave structure, interannual variability, and tidal interactions during the 2002–2011 decade. *Journal of Geophysical Research D: Atmospheres*, **2014**, 119, 2241-2260	4.4	34
194	The effect of non-migrating tides on the morphology of the equatorial ionospheric anomaly: seasonal variability. *Earth, Planets and Space*, **2009**, 61, 493-503	2.9	34
193	Topographic connections with density waves in Mars' aerobraking regime. *Journal of Geophysical Research*, **2008**, 113,		34
192	Sources of Ionospheric Variability at Mars. *Journal of Geophysical Research: Space Physics*, **2017**, 122, 9670-9684	2.9	33
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190	Equinox tidal heating of the upper atmosphere. *Planetary and Space Science*, **1984**, 32, 447-456	2	33
189	Principal modes of thermospheric density variability: Empirical orthogonal function analysis of CHAMP 2001–2008 data. *Journal of Geophysical Research*, **2010**, 115,		32
188	Modulation of the equatorial F-region by the quasi-16-day planetary wave. *Geophysical Research Letters*, **2009**, 36,	4.9	32
187	Climatological features of mesosphere and lower thermosphere stationary planetary waves within ±40° latitude. *Journal of Geophysical Research*, **2002**, 107, ACL 1-1-ACL 1-14		32
186	Simulations of diurnal tides due to tropospheric heating from the NCEP/NCAR Reanalysis Project. *Geophysical Research Letters*, **2001**, 28, 3851-3854	4.9	32
185	Dynamical influences on atomic oxygen and 5577 Å emission rates in the lower thermosphere. *Geophysical Research Letters*, **1998**, 25, 461-464	4.9	32
184	Magnetosphere-thermosphere coupling: An experiment in interactive modeling. *Journal of Geophysical Research*, **1989**, 94, 2631		32
183	Longitudinal and geomagnetic activity modulation of the equatorial thermosphere anomaly. *Journal of Geophysical Research*, **2010**, 115, n/a-n/a		31
182	The influence of geomagnetic and solar variabilities on lower thermosphere density. *Journal of Atmospheric and Solar-Terrestrial Physics*, **2000**, 62, 999-1013	2	31
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179	A space-based climatology of diurnal MLT tidal winds, temperatures and densities from UARS wind measurements. *Journal of Atmospheric and Solar-Terrestrial Physics*, **2005**, 67, 1533-1543	2	30
178	Theory and observation of a dynamically evolving negative ion plasma. *Journal of Geophysical Research*, **1982**, 87, 8273		30
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175	Semidiurnal tide in the 80–150 km region: an assimilative data analysis. *Journal of Atmospheric and Solar-Terrestrial Physics*, **1994**, 56, 1237-1249		29
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173	Oscillation of the Ionosphere at Planetary-Wave Periods. *Journal of Geophysical Research: Space Physics*, **2018**, 123, 7634-7649	2.6	28
172	A new interpretation of Mars aerobraking variability: Planetary wave-tide interactions. *Journal of Geophysical Research*, **2010**, 115,		27
171	Upward propagating tidal effects across the E- and F-regions of the ionosphere. *Earth, Planets and Space*, **2009**, 61, 505-512	2.9	27
170	Transient eastward-propagating long-period waves observed over the South Pole. *Annales Geophysicae*, **1998**, 16, 1486-1500	2	27
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168	Tides in the joint presence of friction and rotation: An f plane approximation. *Journal of Geophysical Research*, **1979**, 84, 803		27
167	Quasi-10-day wave in the atmosphere. *Journal of Geophysical Research D: Atmospheres*, **2015**, 120, 11,079–11,089	4.4	26
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164	Intraannual variability of tides in the thermosphere from model simulations and in situ satellite observations. *Journal of Geophysical Research: Space Physics*, **2015**, 120, 751-765	2.6	25
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162	Sensitivity of Orbit Predictions to Density Variability. *Journal of Spacecraft and Rockets*, **2009**, 46, 1214-1230	1.3	25
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156	Gravity wave-induced variability of the middle thermosphere. *Journal of Geophysical Research: Space Physics*, **2016**, 121, 6914-6923	2.6	24
155	A collaborative study on temperature diurnal tide in the midlatitude mesopause region (41°N, 105°W) with Na lidar and TIMED/SABER observations. *Journal of Atmospheric and Solar-Terrestrial Physics*, **2010**, 72, 541-549	2	24
154	Wave structures in lower thermosphere density from satellite electrostatic triaxial accelerometer measurements. *Journal of Geophysical Research*, **1995**, 100, 14693		24
153	Interannual and latitudinal variability of the thermosphere density annual harmonics. *Journal of Geophysical Research*, **2008**, 113, n/a-n/a		23
152	Simultaneous mesospheric wind measurements near South Pole by optical and meteor radar methods. *Geophysical Research Letters*, **1996**, 23, 1079-1082	4.9	23
151	Thermospheric density variations associated with auroral electrojet activity. *Journal of Geophysical Research*, **1973**, 78, 3841-3847		23
150	Semi-empirical model of middle atmosphere wind from the ground to the lower thermosphere. *Advances in Space Research*, **2009**, 43, 239-246	2.4	22
149	Effects of vertically propagating thermal tides on the mean structure and dynamics of Mars' lower thermosphere. *Geophysical Research Letters*, **2008**, 35,	4.9	22
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147	The summertime 12-h wind oscillation with zonal wavenumber <i>s</i> = 1 in the lower thermosphere over the South Pole. *Annales Geophysicae*, **1998**, 16, 828-837	2	21
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