

Martin G Mlynczak

List of Publications by Year in descending order

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168
papers

8,151
citations

61687

45
h-index

71088

80
g-index

175
all docs

175
docs citations

175
times ranked

3671
citing authors

#	ARTICLE	IF	CITATIONS
1	Climatology of Mesosphere and Lower Thermosphere Residual Circulations and Mesopause Height Derived From SABER Observations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2022, 127, .	1.2	8
2	A case study of a ducted gravity wave event over northern Germany using simultaneous airglow imaging and wind-field observations. <i>Annales Geophysicae</i> , 2022, 40, 179-190.	0.6	4
3	NRLMSIS 2.0: A Whole-Atmosphere Empirical Model of Temperature and Neutral Species Densities. <i>Earth and Space Science</i> , 2021, 8, e2020EA001321.	1.1	145
4	A case study of a thermally ducted undular mesospheric bore accompanied by ripples over the western Himalayan region. <i>Advances in Space Research</i> , 2021, 68, 1425-1440.	1.2	6
5	Large-scale Dune Aurora Event Investigation Combining Citizen Scientists' Photographs and Spacecraft Observations. <i>AGU Advances</i> , 2021, 2, e2020AV000338.	2.3	0
6	Spectroscopy, gas kinetics, and opacity of thermospheric nitric oxide and implications for analysis of SABER infrared emission measurements at 5.3 μm . <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2021, 268, 107609.	1.1	7
7	Intra-Annual Variation of Eddy Diffusion (k_{zz}) in the MLT, From SABER and SCIAMACHY Atomic Oxygen Climatologies. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2021JD035343.	1.2	4
8	Impact of space weather on climate and habitability of terrestrial-type exoplanets. <i>International Journal of Astrobiology</i> , 2020, 19, 136-194.	0.9	125
9	Improving Neutral Density Predictions Using Exospheric Temperatures Calculated on a Geodesic, Polyhedral Grid. <i>Space Weather</i> , 2020, 18, e2019SW002355.	1.3	18
10	Spaceborne Middle- and Far-Infrared Observations Improving Nighttime Ice Cloud Property Retrievals. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL087491.	1.5	8
11	Impacts of Lower Thermospheric Atomic Oxygen on Thermospheric Dynamics and Composition Using the Global Ionosphere Thermosphere Model. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2020JA027877.	0.8	3
12	Coupling From the Middle Atmosphere to the Exobase: Dynamical Disturbance Effects on Light Chemical Species. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2020JA028331.	0.8	12
13	Local-Time Variabilities of March Equinox Daytime SABER CO ₂ in the Upper Mesosphere and Lower Thermosphere Region. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA027039.	0.8	3
14	Radiometric Stability of the SABER Instrument. <i>Earth and Space Science</i> , 2020, 7, e2019EA001011.	1.1	9
15	FORUM: Unique Far-Infrared Satellite Observations to Better Understand How Earth Radiates Energy to Space. <i>Bulletin of the American Meteorological Society</i> , 2020, 101, E2030-E2046.	1.7	40
16	Variability of the Brunt-Väisälä frequency at the OH-airglow layer height at low and midlatitudes. <i>Atmospheric Measurement Techniques</i> , 2020, 13, 6067-6093.	1.2	9
17	Validation of water vapor measured by SABER on the TIMED satellite. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2019, 194, 105099.	0.6	14
18	Multiple Airglow Chemistry approach for atomic oxygen retrievals on the basis of insitu nightglow emissions. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2019, 194, 105096.	0.6	3

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19	Quasi-Biennial Oscillation of Short-Period Planetary Waves and Polar Night Jet in Winter Antarctica Observed in SABER and MERRA-2 and Mechanism Study With a Quasi-Geostrophic Model. <i>Geophysical Research Letters</i> , 2019, 46, 13526-13534.	1.5	7
20	Observations of OH airglow from ground, aircraft, and satellite: investigation of wave-like structures before a minor stratospheric warming. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 6401-6418.	1.9	12
21	Solar Cycle Variability of Nonmigrating Tides in the 5.3 and 15.75 m Infrared Cooling of the Thermosphere (100-150 km) from SABER. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 2338-2356.	0.8	13
22	Analysis of Water Vapor Absorption in the Far-Infrared and Submillimeter Regions Using Surface Radiometric Measurements From Extremely Dry Locations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 8134-8160.	1.2	26
23	On the Long Lasting "Type" Structures in the Sodium Lidogram: The Lifetime of Kelvin-Helmholtz Billows in the Mesosphere and Lower Thermosphere Region. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 3110-3124.	0.8	8
24	Annual and Semiannual Oscillations of Thermospheric Composition in TIMED/GUVI Limb Measurements. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 3067-3082.	0.8	20
25	Model results of OH airglow considering four different wavelength regions to derive night-time atomic oxygen and atomic hydrogen in the mesopause region. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 1835-1851.	1.9	12
26	On the relative roles of dynamics and chemistry governing the abundance and diurnal variation of low-latitude thermospheric nitric oxide. <i>Annales Geophysicae</i> , 2019, 37, 37-48.	0.6	11
27	Increasing Water Vapor in the Stratosphere and Mesosphere After 2002. <i>Geophysical Research Letters</i> , 2019, 46, 13452-13460.	1.5	24
28	Space-Based Sentinels for Measurement of Infrared Cooling in the Thermosphere for Space Weather Nowcasting and Forecasting. <i>Space Weather</i> , 2018, 16, 363-375.	1.3	20
29	Temporal Variability of Atomic Hydrogen From the Mesopause to the Upper Thermosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 1006-1017.	0.8	19
30	Understanding the Global Variability in Thermospheric Nitric Oxide Flux Using Empirical Orthogonal Functions (EOFs). <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 4150-4170.	0.8	20
31	Infrared Radiation in the Thermosphere Near the End of Solar Cycle 24. <i>Geophysical Research Letters</i> , 2018, 45, 11,581-11,587.	1.5	4
32	Correlations Between the Thermosphere's Semiannual Density Variations and Infrared Emissions Measured With the SABER Instrument. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 8850-8864.	0.8	11
33	Understanding the Effects of Polar Mesospheric Clouds on the Environment of the Upper Mesosphere and Lower Thermosphere. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 11,705.	1.2	8
34	On Long-Term SABER CO ₂ Trends and Effects Due to Nonuniform Space and Time Sampling. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 7958-7967.	0.8	20
35	Updated SABER Night Atomic Oxygen and Implications for SABER Ozone and Atomic Hydrogen. <i>Geophysical Research Letters</i> , 2018, 45, 5735-5741.	1.5	44
36	Solar Cycle Response of CO ₂ Over the Austral Winter Mesosphere and Lower Thermosphere Region. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 7581-7597.	0.8	2

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37	Validation of SABER v2.0 Operational Temperature Data With Ground-Based Lidars in the Mesosphere-Lower Thermosphere Region (75–105 km). <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 9916-9934.	1.2	39
38	Thermosphere climate indexes: Percentile ranges and adjectival descriptors. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2018, 174, 28-31.	0.6	10
39	Quasi-biennial oscillation of the ionospheric wind dynamo. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 3553-3569.	0.8	9
40	Thermospheric nitric oxide response to shocked storms. <i>Space Weather</i> , 2017, 15, 325-342.	1.3	57
41	Thermospheric recovery during the 5 April 2010 geomagnetic storm. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 4588-4599.	0.8	21
42	Nonmigrating tidal impact on the CO ₂ infrared cooling of the lower thermosphere during solar minimum conditions. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 6761-6775.	0.8	5
43	Measurements of downwelling far-infrared radiance during the RHUBC-II campaign at Cerro Toco, Chile and comparisons with line-by-line radiative transfer calculations. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2017, 198, 25-39.	1.1	6
44	Variations of global gravity waves derived from 14 years of SABER temperature observations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 6231-6249.	1.2	50
45	Satellite-based observations of tsunami-induced mesosphere airglow perturbations. <i>Geophysical Research Letters</i> , 2017, 44, 522-532.	1.5	13
46	Characterization of a Double Mesospheric Bore Over Europe. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 9738-9750.	0.8	20
47	Revisiting Ionosphere-Thermosphere Responses to Solar Wind Driving in Superstorms of November 2003 and 2004. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 10,824.	0.8	21
48	Ionosphere-Thermosphere energy budgets for the ICME storms of March 2013 and 2015 estimated with GITM and observational proxies. <i>Space Weather</i> , 2017, 15, 1102-1124.	1.3	18
49	Atmospheric Beacons of Life from Exoplanets Around G and K Stars. <i>Scientific Reports</i> , 2017, 7, 14141.	1.6	26
50	Oblique propagation of monsoon gravity waves during the northern hemisphere 2007 summer. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 5063-5075.	1.2	17
51	Resolving the mesospheric nighttime 4.3 μm emission puzzle: comparison of the CO ₂ and OH emission models. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 9751-9760.	1.9	19
52	The spectroscopic foundation of radiative forcing of climate by carbon dioxide. <i>Geophysical Research Letters</i> , 2016, 43, 5318-5325.	1.5	20
53	Estimation of energy budget of ionosphere-thermosphere system during two CIR-HSS events: observations and modeling. <i>Journal of Space Weather and Space Climate</i> , 2016, 6, A20.	1.1	12
54	Intercalibration of neutral density measurements for mapping the thermosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 5975-5990.	0.8	26

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55	Solar wind driving of ionosphere&thermosphere responses in three storms near St. Patrick's Day in 2012, 2013, and 2015. Journal of Geophysical Research: Space Physics, 2016, 121, 8900-8923.	0.8	48
56	Impacts of SABER CO ₂ -based eddy diffusion coefficients in the lower thermosphere on the ionosphere/thermosphere. Journal of Geophysical Research: Space Physics, 2016, 121, 12,080.	0.8	24
57	The global infrared energy budget of the thermosphere from 1947 to 2016 and implications for solar variability. Geophysical Research Letters, 2016, 43, 11934-11940.	1.5	15
58	Southern Hemisphere Summer Mesopause Responses to El Niño&Southern Oscillation. Journal of Climate, 2016, 29, 6319-6328.	1.2	23
59	Satellite observations of middle atmosphere gravity wave absolute momentum flux and of its vertical gradient during recent stratospheric warmings. Atmospheric Chemistry and Physics, 2016, 16, 9983-10019.	1.9	59
60	Observations of downwelling far-infrared emission at Table Mountain California made by the FIRST instrument. Journal of Quantitative Spectroscopy and Radiative Transfer, 2016, 170, 90-105.	1.1	12
61	High correlations between temperature and nitric oxide in the thermosphere. Journal of Geophysical Research: Space Physics, 2015, 120, 5998-6009.	0.8	21
62	The heating efficiency of the exothermic reaction H&O ₃ in the mesosphere. Journal of Geophysical Research D: Atmospheres, 2015, 120, 12739-12747.	1.2	5
63	Increasing carbon dioxide concentration in the upper atmosphere observed by SABER. Geophysical Research Letters, 2015, 42, 7194-7199.	1.5	41
64	Implications of odd oxygen observations by the TIMED/SABER instrument for lower D region ionospheric modeling. Journal of Atmospheric and Solar-Terrestrial Physics, 2015, 124, 63-70.	0.6	19
65	Localized thermosphere ionization events during the high&speed stream interval of 29 April to 5 May 2011. Journal of Geophysical Research: Space Physics, 2015, 120, 675-696.	0.8	9
66	A case study on occurrence of an unusual structure in the sodium layer over Gadanki, India. Earth, Planets and Space, 2015, 67, .	0.9	8
67	Atomic oxygen retrievals in the MLT region from SCIAMACHY nightglow limb measurements. Atmospheric Measurement Techniques, 2015, 8, 1021-1041.	1.2	18
68	A combined solar and geomagnetic index for thermospheric climate. Geophysical Research Letters, 2015, 42, 3677-3682.	1.5	21
69	Far-infrared spectroscopy of the troposphere: calibration with a cold background. Applied Optics, 2014, 53, 5425.	0.9	4
70	Nighttime ozone variability in the high latitude winter mesosphere. Journal of Geophysical Research D: Atmospheres, 2014, 119, 13,547.	1.2	14
71	Influence of solar variability on the infrared radiative cooling of the thermosphere from 2002 to 2014. Geophysical Research Letters, 2014, 41, 2508-2513.	1.5	28
72	Atomic hydrogen in the mesopause region derived from SABER: Algorithm theoretical basis, measurement uncertainty, and results. Journal of Geophysical Research D: Atmospheres, 2014, 119, 3516-3526.	1.2	41

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73	Responses of the lower thermospheric temperature to the 9â€‰%day and 13.5â€‰%day oscillations of recurrent geomagnetic activity. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 4841-4859.	0.8	21
74	Interaction of gravity waves with the QBO: A satellite perspective. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 2329-2355.	1.2	109
75	Investigation of Solar Irradiance Variations and Their Impact on Middle Atmospheric Ozone. Springer Atmospheric Sciences, 2013, , 39-54.	0.4	9
76	Comparison of a photochemical model with observations of mesospheric hydroxyl and ozone. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 195-207.	1.2	15
77	Empirical STORM-E model: II. Geomagnetic corrections to nighttime ionospheric E-region electron densities. <i>Advances in Space Research</i> , 2013, 51, 575-598.	1.2	9
78	Empirical STORM-E model: I. Theoretical and observational basis. <i>Advances in Space Research</i> , 2013, 51, 554-574.	1.2	10
79	Satellite observations of ozone in the upper mesosphere. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 5803-5821.	1.2	63
80	Impact of tropospheric tides on the nitric oxide 5.3 Î¼m infrared cooling of the lowâ€‰latitude thermosphere during solar minimum conditions. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 7283-7293.	0.8	25
81	Far-infrared spectroscopy of the troposphere: instrument description and calibration performance. <i>Applied Optics</i> , 2013, 52, 264.	0.9	6
82	Achieving Climate Change Absolute Accuracy in Orbit. <i>Bulletin of the American Meteorological Society</i> , 2013, 94, 1519-1539.	1.7	239
83	Variability of ionospheric TEC during solar and geomagnetic minima (2008 and 2009): external high speed stream drivers. <i>Annales Geophysicae</i> , 2013, 31, 263-276.	0.6	51
84	Validation of ozone data from the Superconducting Submillimeterâ€‰Wave Limbâ€‰Emission Sounder (SMILES). <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 5750-5769.	1.2	41
85	Radiative and energetic constraints on the global annual mean atomic oxygen concentration in the mesopause region. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 5796-5802.	1.2	26
86	Thermospheric damping response to sheathâ€‰enhanced geospace storms. <i>Geophysical Research Letters</i> , 2013, 40, 1263-1267.	1.5	53
87	Atomic oxygen in the mesosphere and lower thermosphere derived from SABER: Algorithm theoretical basis and measurement uncertainty. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 5724-5735.	1.2	101
88	Absolute concentrations of highly vibrationally excited OH($\tilde{v} = 9 + 8$) in the mesopause region derived from the TIMED/SABER instrument. <i>Geophysical Research Letters</i> , 2013, 40, 646-650.	1.5	9
89	Influence of El NiÃ±oâ€‰Southern Oscillation in the mesosphere. <i>Geophysical Research Letters</i> , 2013, 40, 3292-3296.	1.5	32
90	Radiative constraints on the minimum atomic oxygen concentration in the mesopause region. <i>Geophysical Research Letters</i> , 2013, 40, 3777-3780.	1.5	10

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91	Global and long-term comparison of SCIAMACHY limb ozone profiles with correlative satellite data (2002–2008). <i>Atmospheric Measurement Techniques</i> , 2012, 5, 771-788.	1.2	29
92	Overcooling in the upper thermosphere during the recovery phase of the 2003 October storms. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	46
93	Ground-based high spectral resolution observations of the entire terrestrial spectrum under extremely dry conditions. <i>Geophysical Research Letters</i> , 2012, 39, .	1.5	24
94	Modeling studies of the impact of high-speed streams and co-rotating interaction regions on the thermosphere-ionosphere. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	50
95	Infrared radiation in the thermosphere at the onset of solar cycle 24. <i>Geophysical Research Letters</i> , 2011, 38, .	1.5	16
96	Ionospheric VTEC and thermospheric infrared emission dynamics during corotating interaction region and high-speed stream intervals at solar minimum: 25 March to 26 April 2008. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a.	3.3	34
97	Implications for atmospheric dynamics derived from global observations of gravity wave momentum flux in stratosphere and mesosphere. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	203
98	SABER Observations of Daytime Atomic Oxygen and Ozone Variability in the Mesosphere. , 2011, , 75-82.		5
99	Daytime ozone and temperature variations in the mesosphere: a comparison between SABER observations and HAMMONIA model. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 8331-8339.	1.9	22
100	Short-term periodic features observed in the infrared cooling of the thermosphere and in solar and geomagnetic indexes from 2002 to 2009. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2010, 466, 3409-3419.	1.0	21
101	On the relationship of Joule heating and nitric oxide radiative cooling in the thermosphere. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	63
102	Observations of infrared radiative cooling in the thermosphere on daily to multiyear timescales from the TIMED/SABER instrument. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	102
103	Temporal variations of atomic oxygen in the upper mesosphere from SABER. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	135
104	Strong longitudinal variations in the OH nightglow. <i>Geophysical Research Letters</i> , 2010, 37, .	1.5	52
105	Model simulation of thermospheric response to recurrent geomagnetic forcing. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	44
106	Kinetic temperature and carbon dioxide from broadband infrared limb emission measurements taken from the TIMED/SABER instrument. <i>Advances in Space Research</i> , 2009, 43, 15-27.	1.2	53
107	Influence of solar-geomagnetic disturbances on SABER measurements of 4.3 μ m emission and the retrieval of kinetic temperature and carbon dioxide. <i>Advances in Space Research</i> , 2009, 43, 1325-1336.	1.2	12
108	Kelvin waves in stratosphere, mesosphere and lower thermosphere temperatures as observed by TIMED/SABER during 2002–2006. <i>Earth, Planets and Space</i> , 2009, 61, 447-453.	0.9	46

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109	Validation of Thermosphere Ionosphere Mesosphere Energetics and Dynamics/Sounding of the Atmosphere using Broadband Emission Radiometry (TIMED/SABER) v1.07 ozone at 9.6 \pm 0.4 m in altitude range 15–70 km. Journal of Geophysical Research, 2009, 114, .	3.3	45
110	Global ray tracing simulations of the SABER gravity wave climatology. Journal of Geophysical Research, 2009, 114, .	3.3	120
111	Seasonal and quasi-biennial variations in the migrating diurnal tide observed by Thermosphere, Ionosphere, Mesosphere, Energetics and Dynamics (TIMED). Journal of Geophysical Research, 2009, 114, .	3.3	117
112	Additional stratospheric NO _x production by relativistic electron precipitation during the 2004 spring NO _x descent event. Journal of Geophysical Research, 2009, 114, .	3.3	29
113	OH layer characteristics during unusual boreal winters of 2004 and 2006. Journal of Geophysical Research, 2009, 114, .	3.3	49
114	First observation of an undular mesospheric bore in a Doppler duct. Annales Geophysicae, 2009, 27, 1399-1406.	0.6	33
115	Solar-terrestrial coupling evidenced by periodic behavior in geomagnetic indexes and the infrared energy budget of the thermosphere. Geophysical Research Letters, 2008, 35, .	1.5	86
116	Tidal variability in the ionospheric dynamo region. Journal of Geophysical Research, 2008, 113, .	3.3	283
117	Validation of the Aura Microwave Limb Sounder temperature and geopotential height measurements. Journal of Geophysical Research, 2008, 113, .	3.3	370
118	The Far-infrared Earth. Reviews of Geophysics, 2008, 46, .	9.0	93
119	Overview of the temperature response in the mesosphere and lower thermosphere to solar activity. Reviews of Geophysics, 2008, 46, .	9.0	56
120	Decreases in atomic hydrogen over the summer pole: Evidence for dehydration from polar mesospheric clouds?. Geophysical Research Letters, 2008, 35, .	1.5	19
121	A new source of auroral infrared emission observed by TIMED/SABER. Geophysical Research Letters, 2008, 35, .	1.5	15
122	Assessment of the quality of the Version 1.07 temperature-versus-pressure profiles of the middle atmosphere from TIMED/SABER. Journal of Geophysical Research, 2008, 113, .	3.3	369
123	Satellite observations of high nighttime ozone at the equatorial mesopause. Journal of Geophysical Research, 2008, 113, .	3.3	46
124	Errors in Sounding of the Atmosphere using Broadband Emission Radiometry (SABER) kinetic temperature caused by non-local-thermodynamic-equilibrium model parameters. Journal of Geophysical Research, 2008, 113, .	3.3	99
125	Equatorial wave analysis from SABER and ECMWF temperatures. Atmospheric Chemistry and Physics, 2008, 8, 845-869.	1.9	99
126	Comparison of nighttime nitric oxide 5.3 \pm 0.4 m emissions in the thermosphere measured by MIPAS and SABER. Journal of Geophysical Research, 2007, 112, .	3.3	17

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127	Correction to "Energy transport in the thermosphere during the solar storms of April 2002", Journal of Geophysical Research, 2007, 112, n/a-n/a.	3.3	12
128	Evidence for a solar cycle influence on the infrared energy budget and radiative cooling of the thermosphere. Journal of Geophysical Research, 2007, 112, .	3.3	34
129	Mesopause structure from Thermosphere, Ionosphere, Mesosphere, Energetics, and Dynamics (TIMED)/Sounding of the Atmosphere Using Broadband Emission Radiometry (SABER) observations. Journal of Geophysical Research, 2007, 112, .	3.3	72
130	Sounding of the Atmosphere using Broadband Emission Radiometry observations of daytime mesospheric O ₂ (¹ Σ ⁺) 1.27 μm emission and derivation of ozone, atomic oxygen, and solar and chemical energy deposition rates. Journal of Geophysical Research, 2007, 112, .	3.3	66
131	Ionospheric E-region response to solar-geomagnetic storms observed by TIMED/SABER and application to IRI storm-model development. Advances in Space Research, 2007, 39, 715-728.	1.2	11
132	The Far-Infrared Spectrum: Exploring a New Frontier in the Remote Sensing of the Earth's Climate. , 2007, , .		3
133	Troposphere-thermosphere tidal coupling as measured by the SABER instrument on TIMED during July-September 2002. Journal of Geophysical Research, 2006, 111, .	3.3	159
134	First light from the Far-Infrared Spectroscopy of the Troposphere (FIRST) instrument. Geophysical Research Letters, 2006, 33, .	1.5	57
135	SABER observations of the OH Meinel airglow variability near the mesopause. Journal of Geophysical Research, 2006, 111, .	3.3	88
136	Monthly tidal temperatures 20-120 km from TIMED/SABER. Journal of Geophysical Research, 2006, 111, .	3.3	186
137	Tropopause to mesopause gravity waves in August: Measurement and modeling. Journal of Atmospheric and Solar-Terrestrial Physics, 2006, 68, 1730-1751.	0.6	77
138	Response of the upper/middle atmosphere to coronal holes and powerful high-speed solar wind streams in 2003. Geophysical Monograph Series, 2006, , 319-340.	0.1	35
139	The far-infrared spectroscopy of the troposphere (FIRST) project. , 2005, 5659, 81.		8
140	Large-Scale Waves in the Mesosphere and Lower Thermosphere Observed by SABER. Journals of the Atmospheric Sciences, 2005, 62, 4384-4399.	0.6	128
141	An inter-comparison of far-infrared line-by-line radiative transfer models. Journal of Quantitative Spectroscopy and Radiative Transfer, 2005, 90, 323-341.	1.1	29
142	Energy transport in the thermosphere during the solar storms of April 2002. Journal of Geophysical Research, 2005, 110, .	3.3	105
143	SABER observations of mesospheric temperatures and comparisons with falling sphere measurements taken during the 2002 summer MaCWAVE campaign. Geophysical Research Letters, 2004, 31, .	1.5	174
144	Evidence for an OH(̄,…) excitation mechanism of CO ₂ 4.3 μm nighttime emission from SABER/TIMED measurements. Journal of Geophysical Research, 2004, 109, .	3.3	31

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145	Observations of the O(3P) fine structure line at 63 μm in the upper mesosphere and lower thermosphere. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	17
146	Spectral signature of ice clouds in the far-infrared region: Single-scattering calculations and radiative sensitivity study. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	46
147	SABER ground calibration. <i>International Journal of Remote Sensing</i> , 2003, 24, 403-420.	1.3	8
148	<title>Far-infrared: a frontier in remote sensing of Earth's climate and energy balance</title>. , 2002, 4485, 150.		14
149	Impact of non-LTE processes on middle atmospheric water vapor retrievals from simulated measurements of 6.8 μm Earth limb emission. <i>Geophysical Research Letters</i> , 2002, 29, 2-1-2-4.	1.5	7
150	Retrieval of mesospheric and lower thermospheric kinetic temperature from measurements of CO ₂ 15 μm Earth Limb Emission under non-LTE conditions. <i>Geophysical Research Letters</i> , 2001, 28, 1391-1394.	1.5	241
151	Simultaneous measurements of the O ₂ ($\Delta^1\Gamma^u$) and O ₂ ($\Delta^1\Gamma_g$) Airglows and ozone in the daytime mesosphere. <i>Geophysical Research Letters</i> , 2001, 28, 999-1002.	1.5	38
152	A contemporary assessment of the mesospheric energy budget. <i>Geophysical Monograph Series</i> , 2000, , 37-52.	0.1	13
153	Overview of the SABER experiment and preliminary calibration results. , 1999, 3756, 277.		450
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