Masaki Tsutsumi

List of Publications by Year
in descending order

68	1,228	411340 20	511568 30
papers	citations	h-index	g-index

82	82	82	819
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Long-term studies of mesosphere and lower-thermosphere summer length definitions based on mean zonal wind features observed for more than one solar cycle at middle and high latitudes in the Northern Hemisphere. Annales Geophysicae, 2022, 40, 23-35.	0.6	7
2	Climatology of the short-period (8-h and 6-h) tides observed by meteor radars at TromsÃ¸ and Svalbard. Journal of Atmospheric and Solar-Terrestrial Physics, 2021, 212, 105513.	0.6	11
3	Migrating Semidiurnal Tide During the September Equinox Transition in the Northern Hemisphere. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2020JD033822.	1.2	13
4	Climatology of Interhemispheric Mesopause Temperatures Using the Highâ€Latitude and Middleâ€Latitude Meteor Radars. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2020JD034301.	1.2	4
5	Weakening of Polar Mesosphere Winter Echo and Turbulent Energy Dissipation Rates After a Stratospheric Sudden Warming in the Southern Hemisphere in 2019. Geophysical Research Letters, 2021, 48, e2021GL092705.	1.5	3
6	Meteor radar observations of polar mesospheric summer echoes over Svalbard. Atmospheric Measurement Techniques, 2021, 14, 5015-5027.	1.2	2
7	Atmospheric tomography using the Nordic Meteor Radar Cluster and Chilean Observation Network De Meteor Radars: network details and 3D-Var retrieval. Atmospheric Measurement Techniques, 2021, 14, 6509-6532.	1.2	10
8	Mesospheric Shortâ€Period Gravity Waves in the Antarctic Peninsula Observed in Allâ€Sky Airglow Images and Their Possible Source Locations. Journal of Geophysical Research D: Atmospheres, 2021, 126, .	1.2	1
9	Fourâ€Dimensional Quantification of Kelvinâ€Helmholtz Instabilities in the Polar Summer Mesosphere Using Volumetric Radar Imaging. Geophysical Research Letters, 2020, 47, e2019GL086081.	1.5	18
10	A Statistical Analysis of the Energy Dissipation Rate Estimated From the PMWE Spectral Width in the Antarctic. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2020JD032745.	1.2	3
11	Intermittency of Gravity Waves in the Antarctic Troposphere and Lower Stratosphere Revealed by the PANSY Radar Observation. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2020JD032543.	1.2	14
12	First observations of Polar Mesospheric Echoes at both 31ÂMHz and 53.5ÂMHz over Svalbard (78.2Â°N) Tj ETQq0 0 0 rgBT /Overlock 10	0.2	3
13	Neutral temperatures at 90Âkm altitude over Svalbard (78Â°N 16Â°E), 2002â€“2019, derived from meteor radar observations. Polar Science, 2020, 24, 100530.	0.5	2
14	Zonal Wave Number Diagnosis of Rossby Waveâ€Like Oscillations Using Paired Groundâ€Based Radars. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2019JD031599.	1.2	9
15	Climatology of the main (24-h and 12-h) tides observed by meteor radars at Svalbard and TromsÃ¸: Comparison with the models CMAM-DAS and WACCM-X. Journal of Atmospheric and Solar-Terrestrial Physics, 2020, 207, 105339.	0.6	14
16	Climatology of the mesopause relative density using a global distribution of meteor radars. Atmospheric Chemistry and Physics, 2019, 19, 7567-7581.	1.9	14
17	Direct Comparison Between Magnetospheric Plasma Waves and Polar Mesosphere Winter Echoes in Both Hemispheres. Journal of Geophysical Research: Space Physics, 2019, 124, 9626-9639.	0.8	7
18	Transient ionization of the mesosphere during auroral breakup: Arase satellite and ground-based conjugate observations at Syowa Station. Earth, Planets and Space, 2019, 71, .	0.9	9

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19	Mesospheric anomalous diffusion during noctilucent cloud scenarios. Atmospheric Chemistry and Physics, 2019, 19, 5259-5267.	1.9	5
20	Structure, Variability, and Meanâ€Flow Interactions of the January 2015 Quasiâ€2â€Day Wave at Middle and High Southern Latitudes. Journal of Geophysical Research D: Atmospheres, 2019, 124, 5981-6008.	1.2	7
21	Vertical Structure of Terdiurnal Tides in the Antarctic MLT Region: 15â€Year Observation Over Syowa (69Â°S, 39Â°E). Geophysical Research Letters, 2019, 46, 2364-2371.	1.5	8
22	Highâ€•and Middleâ€Latitude Neutral Mesospheric Density Response to Geomagnetic Storms. Geophysical Research Letters, 2018, 45, 436-444.	1.5	23
23	The 16â€Day Planetary Wave Triggers the SW1â€Tidalâ€Like Signatures During 2009 Sudden Stratospheric Warming. Geophysical Research Letters, 2018, 45, 12,631.	1.5	11
24	Effects of Horizontal Wind Structure on a Gravity Wave Event in the Middle Atmosphere Over Syowa (69^{Â°}S, 40^{Â°}E), the Antarctic. Geophysical Research Letters, 2018, 45, 5151-5157.	1.5	10
25	Statistical Characteristics of Gravity Waves With Nearâ€Inertial Frequencies in the Antarctic Troposphere and Lower Stratosphere Observed by the PANSY Radar. Journal of Geophysical Research D: Atmospheres, 2018, 123, 8993-9010.	1.2	8
26	Simultaneous Observations of Polar Mesosphere Winter Echoes and Cosmic Noise Absorptions in a Common Volume by the PANSY Radar (69.0Â°S, 39.6Â°E). Journal of Geophysical Research: Space Physics, 2018, 123, 5019-5032.	0.8	7
27	Frequency spectra and vertical profiles of wind fluctuations in the summer Antarctic mesosphere revealed by MST radar observations. Journal of Geophysical Research D: Atmospheres, 2017, 122, 3-19.	1.2	34
28	Depletion of mesospheric sodium during extended period of pulsating aurora. Journal of Geophysical Research: Space Physics, 2017, 122, 1212-1220.	0.8	5
29	Application of Manleyâ€Rowe Relation in Analyzing Nonlinear Interactions Between Planetary Waves and the Solar Semidiurnal Tide During 2009 Sudden Stratospheric Warming Event. Journal of Geophysical Research: Space Physics, 2017, 122, 10,783.	0.8	30
30	Characteristics of mesospheric gravity waves over Antarctica observed by Antarctic Gravity Wave Instrument Network imagers using 3â€D spectral analyses. Journal of Geophysical Research D: Atmospheres, 2017, 122, 8969-8981.	1.2	16
31	Polar mesospheric horizontal divergence and relative vorticity measurements using multiple specular meteor radars. Radio Science, 2017, 52, 811-828.	0.8	33
32	Rayleigh/Raman lidar observations of gravity wave activity from 15 to 70Âkm altitude over Syowa (69Â°S,) Tj ETQq0 0 0 rgBT /Overlock	1.2	9
33	Experimental Evidence of Arctic Summer Mesospheric Upwelling and Its Connection to Cold Summer Mesopause. Geophysical Research Letters, 2017, 44, 9151-9158.	1.5	9
34	Characteristics of Mesosphere Echoes over Antarctica Obtained Using PANSY and MF Radars. Scientific Online Letters on the Atmosphere, 2017, 13A, 19-23.	0.6	5
35	Quasi-12â€h inertiaâ€“gravity waves in the lower mesosphere observed by the PANSY radar at Syowa Station (39.6Â°â€E, 69.0Â°â€S). Atmospheric Chemistry and Physics, 2017, 17, 6455-6476.	1.9	21
36	Seasonal and Interannual Variation of Mesospheric Gravity Waves Based on MF Radar Observations over 15 Years at Syowa Station in the Antarctic. Scientific Online Letters on the Atmosphere, 2016, 12, 46-50.	0.6	18

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37	Quasiâ€biennial oscillation modulation of the middleâ€and highâ€latitude mesospheric semidiurnal tides during Augustâ€“September. Journal of Geophysical Research: Space Physics, 2016, 121, 4869-4879.	0.8	22
38	Three years of concentric gravity wave variability in the mesopause as observed by IMAP/VISI. Geophysical Research Letters, 2016, 43, 11,528.	1.5	13
39	Characteristics of Vertical Wind Fluctuations in the Lower Troposphere at Syowa Station in the Antarctic Revealed by the PANSY Radar. Scientific Online Letters on the Atmosphere, 2016, 12, 116-120.	0.6	8
40	Neutral atmosphere temperature trends and variability at 90â€¯km, 70â€‰Â°N, 19â€‰Â°E, 2003â€“2014. Atmospheric Chemistry and Physics, 2016, 16, 7853-7866.	1.9	18
41	Properties of inertia-gravity waves in the lowermost stratosphere as observed by the PANSY radar over Syowa Station in the Antarctic. Annales Geophysicae, 2016, 34, 543-555.	0.6	7
42	A sporadic sodium layer event detected with fiveâ€directional lidar and simultaneous wind, electron density, and electric field observation at TromsÃ¸ Norway. Geophysical Research Letters, 2015, 42, 9190-9196.	1.5	14
43	A case study on generation mechanisms of a sporadic sodium layer above TromsÃ¸ (69.6Â° N) during a night of high auroral activity. Annales Geophysicae, 2015, 33, 941-953.	0.6	11
44	A Study of Multiple Tropopause Structures Caused by Inertiaâ€“Gravity Waves in the Antarctic. Journals of the Atmospheric Sciences, 2015, 72, 2109-2130.	0.6	25
45	Vertical Wind Disturbances during a Strong Wind Event Observed by the PANSY Radar at Syowa Station, Antarctica. Monthly Weather Review, 2015, 143, 1804-1821.	0.5	10
46	Height and time characteristics of seasonal and diurnal variations in PMWE based on 1â€‰year observations by the PANSY radar (69.0Â°S, 39.6Â°E). Geophysical Research Letters, 2015, 42, 2100-2108.	1.5	16
47	Variations of nitric oxide in the mesosphere and lower thermosphere over Antarctica associated with a magnetic storm in April 2012. Geophysical Research Letters, 2014, 41, 2568-2574.	1.5	12
48	Program of the Antarctic Syowa MST/IS radar (PANSY). Journal of Atmospheric and Solar-Terrestrial Physics, 2014, 118, 2-15.	0.6	66
49	New statistical analysis of the horizontal phase velocity distribution of gravity waves observed by airglow imaging. Journal of Geophysical Research D: Atmospheres, 2014, 119, 9707-9718.	1.2	27
50	Decrease in sodium density observed during auroral particle precipitation over TromsÃ¸ Norway. Geophysical Research Letters, 2013, 40, 4486-4490.	1.5	19
51	Mean winds, tides, and quasi-2 day waves above Bear Island. Journal of Atmospheric and Solar-Terrestrial Physics, 2012, 90-91, 26-44.	0.6	10
52	Temperature trends at 90 km over Svalbard, Norway (78Â°N 16Â°E), seen in one decade of meteor radar observations. Journal of Geophysical Research, 2012, 117, .	3.3	32
53	Short-period gravity waves and ripples in the South Pole mesosphere. Journal of Geophysical Research, 2011, 116, .	3.3	19
54	Characteristics of Arctic winds at CANDAC-PEARL (80Â° N, 86Â° W) and Svalbard (78Â° N, 16Â° E) for 2006â€“2009: radar observations and comparisons with the model CMAM-DAS. Annales Geophysicae, 2011, 29, 1927-1938.	0.6	5

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55	Improved estimates for neutral air temperatures at 90 km and 78Â°N using satellite and meteor radar data. Radio Science, 2010, 45, n/a-n/a.	0.8	24
56	Arctic tidal characteristics at Eureka (80Â° N, 86Â° W) and Svalbard (78Â° N, 16Â° E) for 2006/07: seasonal and longitudinal variations, migrating and non-migrating tides. Annales Geophysicae, 2009, 27, 1153-1173.	0.6	35
57	Source regions for Antarctic MLT nonâ€migrating semidiurnal tides. Geophysical Research Letters, 2009, 36, .	1.5	28
58	Polar mesosphere and lower thermosphere dynamics: 1. Mean wind and gravity wave climatologies. Journal of Geophysical Research, 2007, 112, .	3.3	50
59	Neutral air temperatures at 90 km and 70Â°N and 78Â°N. Journal of Geophysical Research, 2006, 111, .	3.3	33
60	A climatology of tides in the Antarctic mesosphere and lower thermosphere. Journal of Geophysical Research, 2006, 111, .	3.3	72
61	<i>Letter to the Editior</i>Testing the hypothesis of the influence of neutral turbulence on the deduction of ambipolar diffusivities from meteor trail expansion. Annales Geophysicae, 2005, 23, 1071-1073.	0.6	16
62	A comparison of mesosphere and lower thermosphere neutral winds as determined by meteor and medium-frequency radar at 70Â°N. Radio Science, 2005, 40, n/a-n/a.	0.8	27
63	MF radar observations of meteors and meteor-derived winds at Syowa (69Â°S, 39Â°E), Antarctica: A comparison with simultaneous spaced antenna winds. Journal of Geophysical Research, 2005, 110, .	3.3	12
64	Multi-instrument derivation of 90 km temperatures over Svalbard (78Â°N 16Â°E). Radio Science, 2004, 39, n/a-n/a.	0.8	17
65	Observations of a nonmigrating component of the semidiurnal tide over Antarctica. Journal of Geophysical Research, 2003, 108, .	3.3	40
66	An examination of high latitude upper mesosphere dynamic stability using the Nippon/Norway Svalbard Meteor Radar. Geophysical Research Letters, 2002, 29, 121-1-121-3.	1.5	23
67	Meteor observations with an MF radar. Earth, Planets and Space, 1999, 51, 691-699.	0.9	30
68	Global study of northern hemisphere quasi-2-day wave events in recent summers near 90 km altitude. Journal of Atmospheric and Solar-Terrestrial Physics, 1996, 58, 1401-1411.	0.9	78