Takeshi Horinouchi

List of Publications by Citations

70 papers	2,757 citations	21 h-index	52 g-index
79 ext. papers	3,173 ext. citations	5.1 avg, IF	4.66 L-index

#	Paper	IF	Citations
70	The quasi-biennial oscillation. *Reviews of Geophysics*, **2001**, 39, 179-229	23.1	1337
69	Tropical Cumulus Convection and Upward-Propagating Waves in Middle-Atmospheric GCMs. *Journals of the Atmospheric Sciences*, **2003**, 60, 2765-2782	2.1	89
68	Convectively generated mesoscale gravity waves simulated throughout the middle atmosphere. *Geophysical Research Letters*, **2002**, 29, 3-1	4.9	84
67	Convective Impact on Temperatures Observed near the Tropical Tropopause. *Journals of the Atmospheric Sciences*, **2003**, 60, 1847-1856	2.1	80
66	Large stationary gravity wave in the atmosphere of Venus. *Nature Geoscience*, **2017**, 10, 85-88	18.3	79
65	AKATSUKI returns to Venus. *Earth, Planets and Space*, **2016**, 68,	2.9	69
64	Wave–Mean Flow Interaction Associated with a QBO-like Oscillation Simulated in a Simplified GCM. *Journals of the Atmospheric Sciences*, **1998**, 55, 502-526	2.1	65
63	Overview of Venus orbiter, Akatsuki. *Earth, Planets and Space*, **2011**, 63, 443-457	2.9	54
62	Sea-Breeze Circulation over Jakarta, Indonesia: A Climatology Based on Boundary Layer Radar Observations. *Monthly Weather Review*, **2002**, 130, 2153-2166	2.4	52
61	Performance of the Meteolabor "Snow White" Chilled-Mirror Hygrometer in the Tropical Troposphere: Comparisons with the Vaisala RS80 A/H-Humicap Sensors. *Journal of Atmospheric and Oceanic Technology*, **2003**, 20, 1534-1542	2	47
60	Turbulence at the tropopause due to breaking Kelvin waves observed by the Equatorial Atmosphere Radar. *Geophysical Research Letters*, **2003**, 30,	4.9	39
59	Mean winds at the cloud top of Venus obtained from two-wavelength UV imaging by Akatsuki. *Earth, Planets and Space*, **2018**, 70,	2.9	36
58	Topographical and Local Time Dependence of Large Stationary Gravity Waves Observed at the Cloud Top of Venus. *Geophysical Research Letters*, **2017**, 44, 12,098	4.9	33
57	Kelvin-Helmholtz instability around the tropical tropopause observed with the Equatorial Atmosphere Radar. *Geophysical Research Letters*, **2003**, 30,	4.9	33
56	Kelvin Wave Activity and the Quasi-Biennial Oscillation in the Equatorial Lower Stratosphere. *Journal of the Meteorological Society of Japan*, **1993**, 71, 175-182	2.8	30
55	Influence of Upper Tropospheric Disturbances on the Synoptic Variability of Precipitation and Moisture Transport over Summertime East Asia and the Northwestern Pacific. *Journal of the Meteorological Society of Japan*, **2014**, 92, 519-541	2.8	30
54	Modulation of the midlatitude ionospheric E region by atmospheric gravity waves through polarization electric field. *Journal of Geophysical Research*, **2004**, 109,		28

53	Equatorial jet in the lower to middle cloud layer of Venus revealed by Akatsuki. *Nature Geoscience*, **2017**, 10, 646-651	18.3	24
52	High time resolution determination of the tropical tropopause by the Equatorial Atmosphere Radar. *Geophysical Research Letters*, **2003**, 30,	4.9	24
51	Ultraviolet imager on Venus orbiter and its initial results. *Earth, Planets and Space*, **2018**, 70, 23	2.9	23
50	Venus looks different from day to night across wavelengths: morphology from Akatsuki multispectral images. *Earth, Planets and Space*, **2018**, 70, 24	2.9	23
49	Performance of Akatsuki/IR2 in Venus orbit: the first year. *Earth, Planets and Space*, **2017**, 69,	2.9	21
48	Jet–Precipitation Relation and Future Change of the Mei-Yu–Baiu Rainband and Subtropical Jet in CMIP5 Coupled GCM Simulations. *Journal of Climate*, **2019**, 32, 2247-2259	4.4	20
47	Synoptic-scale Rossby waves and the geographic distribution of lateral transport routes between the tropics and the extratropics in the lower stratosphere. *Journal of Geophysical Research*, **2000**, 105, 26579-26592		20
46	Precipitation Characteristics over East Asia in Early Summer: Effects of the Subtropical Jet and Lower-Tropospheric Convective Instability. *Journal of Climate*, **2017**, 30, 8127-8147	4.4	19
45	Excitation of Transient Waves by Localized Episodic Heating in the Tropics and Their Propagation into the Middle Atmosphere. *Journal of the Meteorological Society of Japan*, **1996**, 74, 189-210	2.8	19
44	Improved automatic estimation of winds at the cloud top of Venus using superposition of cross-correlation surfaces. *Icarus*, **2016**, 271, 98-119	3.8	19
43	How waves and turbulence maintain the super-rotation of Venus' atmosphere. *Science*, **2020**, 368, 405-409	33.3	18
42	Long-term Variations of Venus's 365 nm Albedo Observed by Venus Express, Akatsuki, MESSENGER, and the Hubble Space Telescope. *Astronomical Journal*, **2019**, 158, 126	4.9	18
41	Pacific Ocean decadal forcing of long-term changes in the western Pacific subtropical high. *Scientific Reports*, **2016**, 6, 37765	4.9	17
40	Overview of Akatsuki data products: definition of data levels, method and accuracy of geometric correction. *Earth, Planets and Space*, **2017**, 69,	2.9	17
39	Spatial structures and statistics of atmospheric gravity waves derived using a heuristic vertical cross-section extraction from COSMIC GPS radio occultation data. *Journal of Geophysical Research*, **2009**, 114,		17
38	Meandering Subtropical Jet and Precipitation over Summertime East Asia and the Northwestern Pacific. *Journals of the Atmospheric Sciences*, **2017**, 74, 1233-1247	2.1	16
37	Venus's winds and temperatures during the MESSENGER's flyby: An approximation to a three-dimensional instantaneous state of the atmosphere. *Geophysical Research Letters*, **2017**, 44, 3907-3915	4.9	16
36	Nightside Winds at the Lower Clouds of Venus with Akatsuki /IR2: Longitudinal, Local Time, and Decadal Variations from Comparison with Previous Measurements. *Astrophysical Journal, Supplement Series*, **2018**, 239, 29	8	15

35	Solar-locked and geographical atmospheric structures inferred from a Venus general circulation model with radiative transfer. *Icarus*, **2019**, 321, 232-250	3.8	14
34	Planetary-Scale Variations in Winds and UV Brightness at the Venusian Cloud Top: Periodicity and Temporal Evolution. *Journal of Geophysical Research E: Planets*, **2019**, 124, 2635-2659	4.1	13
33	Global Structure of Thermal Tides in the Upper Cloud Layer of Venus Revealed by LIR on Board Akatsuki. *Geophysical Research Letters*, **2019**, 46, 9457-9465	4.9	13
32	VENUS CLOUD MORPHOLOGY AND MOTIONS FROM GROUND-BASED IMAGES AT THE TIME OF THE AKATSUKI ORBIT INSERTION. *Astrophysical Journal Letters*, **2016**, 833, L7	7.9	13
31	New cloud morphologies discovered on the Venus's night during Akatsuki. *Icarus*, **2019**, 333, 177-182	3.8	12
30	Image velocimetry for clouds with relaxation labeling based on deformation consistency. *Measurement Science and Technology*, **2017**, 28, 085301	2	12
29	On the Dynamics of Easterly Waves, Monsoon Depressions, and Tropical Depression Type Disturbances. *Journal of the Meteorological Society of Japan*, **2000**, 78, 167-173	2.8	11
28	Stationary Features at the Cloud Top of Venus Observed by Ultraviolet Imager Onboard Akatsuki. *Journal of Geophysical Research E: Planets*, **2019**, 124, 1266-1281	4.1	10
27	Response of the Baiu Rainband to Northwest Pacific SST Anomalies and Its Impact on Atmospheric Circulation. *Journal of Climate*, **2016**, 29, 3075-3093	4.4	9
26	Simulated breaking of convectively generated mesoscale gravity waves and airglow modulation. *Journal of Atmospheric and Solar-Terrestrial Physics*, **2004**, 66, 755-767	2	9
25	Momentum Flux Spectrum of Convectively Forced Gravity Waves: Can Diabatic Forcing Be a Proxy for Convective Forcing?. *Journals of the Atmospheric Sciences*, **2005**, 62, 4113-4120	2.1	9
24	A Long-Lived Sharp Disruption on the Lower Clouds of Venus. *Geophysical Research Letters*, **2020**, 47, e2020GL087221	4.9	8
23	Moist Hadley Circulation: Possible Role of Wave–Convection Coupling in Aquaplanet Experiments. *Journals of the Atmospheric Sciences*, **2012**, 69, 891-907	2.1	8
22	Mesoscale Variability of Tropical Precipitation: Validation of Satellite Estimates of Wave Forcing Using TOGA COARE Radar Data. *Journals of the Atmospheric Sciences*, **2002**, 59, 2428-2437	2.1	8
21	Propagation of Waves Exited by Localized Episodic Heating in the Tropics and Their Effect on the Middle Atmosphere. *Journal of the Meteorological Society of Japan*, **1997**, 75, 641-656	2.8	7
20	The Lateral Transport of Zonal Momentum Due to Kelvin Waves in a Meridional Circulation. *Journals of the Atmospheric Sciences*, **2004**, 61, 1966-1975	2.1	7
19	Modulation of Seasonal Precipitation over the Tropical Western/Central Pacific by Convectively Coupled Mixed Rossby–Gravity Waves. *Journals of the Atmospheric Sciences*, **2013**, 70, 600-606	2.1	6
18	Vertical wind observation in the tropical upper troposphere by VHF wind profiler: A case study. *Radio Science*, **2007**, 42, n/a-n/a	1.4	6

17	Robust Asymmetry of the Future Arctic Polar Vortex Is Driven by Tropical Pacific Warming. *Geophysical Research Letters*, **2021**, 48, e2021GL093440	4.9	6
16	The nightside cloud-top circulation of the atmosphere of Venus. *Nature*, **2021**, 595, 511-515	50.4	6
15	The 5-8-Day Kelvin and Rossby Waves in the Tropics as Revealed by Ground and Satellite-Based Observations. *Journal of the Meteorological Society of Japan*, **2008**, 86, 43-55	2.8	5
14	Moisture Supply, Jet, and Silk-Road Wave Train Associated with the Prolonged Heavy Rainfall in Kyushu, Japan in Early July 2020. *Scientific Online Letters on the Atmosphere*, **2021**, 17B, 1-8	2.1	4
13	Contrasting Responses of Midlatitude Jets to the North Pacific and North Atlantic Warming. *Geophysical Research Letters*, **2019**, 46, 3973-3981	4.9	3
12	Convective Bursts With Gravity Waves in Tropical Cyclones: Case Study With the Himawari-8 Satellite and Idealized Numerical Study. *Geophysical Research Letters*, **2020**, 47, e2019GL086295	4.9	3
11	An intense gravity wave near the mesopause region observed by a Fabry-Perot interferometer and an airglow imager. *Journal of Geophysical Research*, **2007**, 112,		3
10	Gfdnavi, Web-Based Data and Knowledge Server Software for Geophysical Fluid Sciences, Part I: Rationales, Stand-Alone Features, and Supporting Knowledge Documentation Linked to Data. *Lecture Notes in Computer Science*, **2010**, 93-104	0.9	3
9	Gfdnavi, Web-Based Data and Knowledge Server Software for Geophysical Fluid Sciences, Part II: RESTful Web Services and Object-Oriented Programming Interface. *Lecture Notes in Computer Science*, **2010**, 105-116	0.9	3
8	Estimation of the Tangential Winds and Asymmetric Structures in Typhoon Inner Core Region Using Himawari-8. *Geophysical Research Letters*, **2020**, 47, e2020GL087637	4.9	3
7	Reintensification and Eyewall Formation in Strong Shear: A Case Study of Typhoon Noul (2015). *Monthly Weather Review*, **2018**, 146, 2799-2817	2.4	3
6	"Gtool5": a Fortran90 library of input/output interfaces for self-descriptive multi-dimensional numerical data. *Geoscientific Model Development*, **2012**, 5, 449-455	6.3	2
5	A numerical study of upward-propagating gravity waves in two different MJO phases. *Geophysical Research Letters*, **2008**, 35,	4.9	2
4	Inner-Core Wind Field in a Concentric Eyewall Replacement of Typhoon Trami (2018): A Quantitative Analysis Based on the Himawari-8 Satellite. *Journal of Geophysical Research D: Atmospheres*, **2021**, 126, e2020JD034434	4.4	2
3	Venus night-side photometry with □leaned□Akatsuki/IR2 data: Aerosol properties and variations of carbon monoxide. *Icarus*, **2021**, 355, 114134	3.8	1
2	Low Cloud Modulation by Synoptic Waves over the Eastern Tropical Pacific. *Journal of the Meteorological Society of Japan*, **2012**, 90, 947-958	2.8	
1	An Experimental Data Handling System for Ensemble Numerical Weather Predictions Using a Web-Based Data Server and Analysis Tool □Gfdnavi□*Journal of Disaster Research*, **2013**, 8, 48-56	0.8	