

Takehiko Satoh

List of Publications by Year in descending order

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Version: 2024-02-01

46
papers

1,633
citations

331259

21
h-index

288905

40
g-index

51
all docs

51
docs citations

51
times ranked

964
citing authors

#	ARTICLE	IF	CITATIONS
1	New models of Jupiter's magnetic field constrained by the Io flux tube footprint. <i>Journal of Geophysical Research</i> , 1998, 103, 11929-11939.	3.3	384
2	AKATSUKI returns to Venus. <i>Earth, Planets and Space</i> , 2016, 68, .	0.9	89
3	Solar Wind Control of Jupiter's H ₃ Auroras. <i>Icarus</i> , 1996, 120, 437-442.	1.1	79
4	Emission Source Model of Jupiter's H ₃ Aurorae: A Generalized Inverse Analysis of Images. <i>Icarus</i> , 1996, 122, 1-23.	1.1	75
5	Overview of Venus orbiter, Akatsuki. <i>Earth, Planets and Space</i> , 2011, 63, 443-457.	0.9	72
6	Planet-C: Venus Climate Orbiter mission of Japan. <i>Planetary and Space Science</i> , 2007, 55, 1831-1842.	0.9	67
7	Long-term variation in the cloud-tracked zonal velocities at the cloud top of Venus deduced from Venus Express VMC images. <i>Journal of Geophysical Research E: Planets</i> , 2013, 118, 37-46.	1.5	67
8	Initial performance of the radio occultation experiment in the Venus orbiter mission Akatsuki. <i>Earth, Planets and Space</i> , 2017, 69, .	0.9	60
9	Topographical and Local Time Dependence of Large Stationary Gravity Waves Observed at the Cloud Top of Venus. <i>Geophysical Research Letters</i> , 2017, 44, 12,098.	1.5	46
10	Horizontal structure of planetary-scale waves at the cloud top of Venus deduced from Galileo SSI images with an improved cloud-tracking technique. <i>Planetary and Space Science</i> , 2012, 60, 207-216.	0.9	43
11	How waves and turbulence maintain the super-rotation of Venus's atmosphere. <i>Science</i> , 2020, 368, 405-409.	6.0	41
12	Equatorial jet in the lower to middle cloud layer of Venus revealed by Akatsuki. <i>Nature Geoscience</i> , 2017, 10, 646-651.	5.4	35
13	Planetary-scale streak structure reproduced in high-resolution simulations of the Venus atmosphere with a low-stability layer. <i>Nature Communications</i> , 2019, 10, 23.	5.8	35
14	Stationary waves and slowly moving features in the night upper clouds of Venus. <i>Nature Astronomy</i> , 2017, 1, .	4.2	35
15	Ultraviolet imager on Venus orbiter Akatsuki and its initial results. <i>Earth, Planets and Space</i> , 2018, 70, 23.	0.9	34
16	Vertical propagation of planetary-scale waves in variable background winds in the upper cloud region of Venus. <i>Icarus</i> , 2015, 248, 560-568.	1.1	31
17	Venus looks different from day to night across wavelengths: morphology from Akatsuki multispectral images. <i>Earth, Planets and Space</i> , 2018, 70, 24.	0.9	31
18	Performance of Akatsuki/IR2 in Venus orbit: the first year. <i>Earth, Planets and Space</i> , 2017, 69, .	0.9	28

#	ARTICLE	IF	CITATIONS
19	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.	1.5	26
20	Return to Venus of the Japanese Venus Climate Orbiter AKATSUKI. Acta Astronautica, 2014, 93, 384-389.	1.7	24
21	Absolute calibration of brightness temperature of the Venus disk observed by the Longwave Infrared Camera onboard Akatsuki. Earth, Planets and Space, 2017, 69, .	0.9	21
22	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.	3.0	21
23	Planetary-scale Variations in Winds and UV Brightness at the Venesian Cloud Top: Periodicity and Temporal Evolution. Journal of Geophysical Research E: Planets, 2019, 124, 2635-2659.	1.5	21
24	Overview of Akatsuki data products: definition of data levels, method and accuracy of geometric correction. Earth, Planets and Space, 2017, 69, .	0.9	20
25	New cloud morphologies discovered on the Venus's night during Akatsuki. Icarus, 2019, 333, 177-182.	1.1	20
26	Initial products of Akatsuki 1-1/4m camera. Earth, Planets and Space, 2018, 70, .	0.9	17
27	Identification of Jupiter's magnetic equator through H3+ ionospheric emission. Nature Astronomy, 2018, 2, 773-777.	4.2	17
28	A Long-lived Sharp Disruption on the Lower Clouds of Venus. Geophysical Research Letters, 2020, 47, e2020GL087221.	1.5	17
29	Science requirements and description of the 1 μm camera onboard the Akatsuki Venus Orbiter. Earth, Planets and Space, 2011, 63, 487-492.	0.9	16
30	Cloud top structure of Venus revealed by Subaru/COMICS mid-infrared images. Icarus, 2014, 243, 386-399.	1.1	16
31	Venus' cloud top wind study: Coordinated Akatsuki/UVI with cloud tracking and TNG/HARPS-N with Doppler velocimetry observations. Icarus, 2020, 335, 113418.	1.1	16
32	The nightside cloud-top circulation of the atmosphere of Venus. Nature, 2021, 595, 511-515.	13.7	14
33	Venus's clouds as inferred from the phase curves acquired by IR1 and IR2 on board Akatsuki. Icarus, 2015, 248, 213-220.	1.1	13
34	Dayside cloud top structure of Venus retrieved from Akatsuki IR2 observations. Icarus, 2020, 345, 113682.	1.1	13
35	Cloud structure in Venus middle-to-lower atmosphere as inferred from VEX/VIRTIS 1.74 μm data. Journal of Geophysical Research, 2009, 114, .	3.3	12
36	Development and in-flight calibration of IR2: 2-1/4m camera onboard Japan's Venus orbiter, Akatsuki. Earth, Planets and Space, 2016, 68, .	0.9	11

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37	A change of upper cloud structure in Jupiter's South Equatorial Belt during the 1989â€“1990 event. <i>Journal of Geophysical Research</i> , 1994, 99, 8425.	3.3	10
38	Brightness modulations of our nearest terrestrial planet Venus reveal atmospheric super-rotation rather than surface features. <i>Nature Communications</i> , 2020, 11, 5720.	5.8	10
39	Constraints on Venus Lightning From Akatsuki's First 3 Years in Orbit. <i>Geophysical Research Letters</i> , 2019, 46, 7955-7961.	1.5	9
40	Retrieval of jovian cloud structure from the Cassini ISS limb-darkening data. <i>Icarus</i> , 2013, 222, 100-121.	1.1	8
41	Initiation of a lightning search using the lightning and airglow camera onboard the Venus orbiter Akatsuki. <i>Earth, Planets and Space</i> , 2018, 70, 88.	0.9	8
42	The Great Cold Spot in Jupiter's upper atmosphere. <i>Geophysical Research Letters</i> , 2017, 44, 3000-3008.	1.5	7
43	Venus night-side photometry with â€œcleanedâ€ Akatsuki/IR2 data: Aerosol properties and variations of carbon monoxide. <i>Icarus</i> , 2021, 355, 114134.	1.1	4
44	Correlation of Venusian Mesoscale Cloud Morphology Between Images Acquired at Various Wavelengths. <i>Journal of Geophysical Research E: Planets</i> , 2022, 127, .	1.5	3
45	Editorial: Topical Collection on Venus. <i>Space Science Reviews</i> , 2018, 214, 1.	3.7	2
46	Akatsuki: Pioneering the planetary meteorology of Venus. , 2019, , 10-13.		0