Takehiko Satoh

List of Publications by Year
in descending order

46 papers	1,633 citations	331670 21 h-index	289244 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. Journal of Geophysical Research, 1998, 103, 11929-11939.	3.3	384
2	AKATSUKI returns to Venus. Earth, Planets and Space, 2016, 68, .	2.5	89
3	Solar Wind Control of Jupiter's H+3Auroras. Icarus, 1996, 120, 437-442.	2.5	79
4	Emission Source Model of Jupiter's H+3Aurorae: A Generalized Inverse Analysis of Images. Icarus, 1996, 122, 1-23.	2.5	75
5	Overview of Venus orbiter, Akatsuki. Earth, Planets and Space, 2011, 63, 443-457.	2.5	72
6	Planet-C: Venus Climate Orbiter mission of Japan. Planetary and Space Science, 2007, 55, 1831-1842.	1.7	67
7	Longâ€term variation in the cloudâ€tracked zonal velocities at the cloud top of Venus deduced from Venus Express VMC images. Journal of Geophysical Research E: Planets, 2013, 118, 37-46.	3.6	67
8	Initial performance of the radio occultation experiment in the Venus orbiter mission Akatsuki. Earth, Planets and Space, 2017, 69, .	2.5	60
9	Topographical and Local Time Dependence of Large Stationary Gravity Waves Observed at the Cloud Top of Venus. Geophysical Research Letters, 2017, 44, 12,098.	4.0	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. Planetary and Space Science, 2012, 60, 207-216.	1.7	43
11	How waves and turbulence maintain the super-rotation of Venusâ€™ atmosphere. Science, 2020, 368, 405-409.	12.6	41
12	Equatorial jet in the lower to middle cloud layer of Venus revealed by Akatsuki. Nature Geoscience, 2017, 10, 646-651.	12.9	35
13	Planetary-scale streak structure reproduced in high-resolution simulations of the Venus atmosphere with a low-stability layer. Nature Communications, 2019, 10, 23.	12.8	35
14	Stationary waves and slowly moving features in the night upper clouds of Venus. Nature Astronomy, 2017, 1, .	10.1	35
15	Ultraviolet imager on Venus orbiter Akatsuki and its initial results. Earth, Planets and Space, 2018, 70, 23.	2.5	34
16	Vertical propagation of planetary-scale waves in variable background winds in the upper cloud region of Venus. Icarus, 2015, 248, 560-568.	2.5	31
17	Venus looks different from day to night across wavelengths: morphology from Akatsuki multispectral images. Earth, Planets and Space, 2018, 70, 24.	2.5	31
18	Performance of Akatsuki/IR2 in Venus orbit: the first year. Earth, Planets and Space, 2017, 69, .	2.5	28

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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.	4.0	26
20	Return to Venus of the Japanese Venus Climate Orbiter AKATSUKI. Acta Astronautica, 2014, 93, 384-389.	3.2	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, .	2.5	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.	7.7	21
23	Planetaryâ€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.	3.6	21
24	Overview of Akatsuki data products: definition of data levels, method and accuracy of geometric correction. Earth, Planets and Space, 2017, 69, .	2.5	20
25	New cloud morphologies discovered on the Venus's night during Akatsuki. Icarus, 2019, 333, 177-182.	2.5	20
26	Initial products of Akatsuki 1-Î¼m camera. Earth, Planets and Space, 2018, 70, .	2.5	17
27	Identification of Jupiterâ€™s magnetic equator through H3+ ionospheric emission. Nature Astronomy, 2018, 2, 773-777.	10.1	17
28	A Longâ€Lived Sharp Disruption on the Lower Clouds of Venus. Geophysical Research Letters, 2020, 47, e2020GL087221.	4.0	17
29	Science requirements and description of the 1 Îµm camera onboard the Akatsuki Venus Orbiter. Earth, Planets and Space, 2011, 63, 487-492.	2.5	16
30	Cloud top structure of Venus revealed by Subaru/COMICS mid-infrared images. Icarus, 2014, 243, 386-399.	2.5	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.	2.5	16
32	The nightside cloud-top circulation of the atmosphere of Venus. Nature, 2021, 595, 511-515.	27.8	14
33	Venusâ€™ clouds as inferred from the phase curves acquired by IR1 and IR2 on board Akatsuki. Icarus, 2015, 248, 213-220.	2.5	13
34	Dayside cloud top structure of Venus retrieved from Akatsuki IR2 observations. Icarus, 2020, 345, 113682.	2.5	13
35	Cloud structure in Venus middleâ€toâ€lower atmosphere as inferred from VEX/VIRTIS 1.74 Î¼m data. Journal of Geophysical Research, 2009, 114, .	3.3	12
36	Development and in-flight calibration of IR2: 2-Î¼m camera onboard Japanâ€™s Venus orbiter, Akatsuki. Earth, Planets and Space, 2016, 68, .	2.5	11

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37	A change of upper cloud structure in Jupiter's South Equatorial Belt during the 1989â€“1990 event. Journal of Geophysical Research, 1994, 99, 8425.	3.3	10
38	Brightness modulations of our nearest terrestrial planet Venus reveal atmospheric super-rotation rather than surface features. Nature Communications, 2020, 11, 5720.	12.8	10
39	Constraints on Venus Lightning From Akatsuki's First 3 Years in Orbit. Geophysical Research Letters, 2019, 46, 7955-7961.	4.0	9
40	Retrieval of jovian cloud structure from the Cassini ISS limb-darkening data. Icarus, 2013, 222, 100-121.	2.5	8
41	Initiation of a lightning search using the lightning and airglow camera onboard the Venus orbiter Akatsuki. Earth, Planets and Space, 2018, 70, 88.	2.5	8
42	The Great Cold Spot in Jupiter's upper atmosphere. Geophysical Research Letters, 2017, 44, 3000-3008.	4.0	7
43	Venus night-side photometry with â€œcleanedâ€•Akatsuki/IR2 data: Aerosol properties and variations of carbon monoxide. Icarus, 2021, 355, 114134.	2.5	4
44	Correlation of Venusian Mesoscale Cloud Morphology Between Images Acquired at Various Wavelengths. Journal of Geophysical Research E: Planets, 2022, 127, .	3.6	3
45	Editorial: Topical Collection on Venus. Space Science Reviews, 2018, 214, 1.	8.1	2
46	Akatsuki: Pioneering the planetary meteorology of Venus. , 2019, , 10-13.		0