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	Correlation of Venusian Mesoscale Cloud Morphology Between Images Acquired at Various Wavelengths. Journal of Geophysical Research E: Planets, 2022, 127, .	3.6	3
2	Venus night-side photometry with â€œcleanedâ€•Akatsuki/IR2 data: Aerosol properties and variations of carbon monoxide. Icarus, 2021, 355, 114134.	2.5	4
3	The nightside cloud-top circulation of the atmosphere of Venus. Nature, 2021, 595, 511-515.	27.8	14
4	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
5	Brightness modulations of our nearest terrestrial planet Venus reveal atmospheric super-rotation rather than surface features. Nature Communications, 2020, 11, 5720.	12.8	10
6	A Longâ€Lived Sharp Disruption on the Lower Clouds of Venus. Geophysical Research Letters, 2020, 47, e2020GL087221.	4.0	17
7	Dayside cloud top structure of Venus retrieved from Akatsuki IR2 observations. Icarus, 2020, 345, 113682.	2.5	13
8	How waves and turbulence maintain the super-rotation of Venusâ€™ atmosphere. Science, 2020, 368, 405-409.	12.6	41
9	Constraints on Venus Lightning From Akatsuki's First 3 Years in Orbit. Geophysical Research Letters, 2019, 46, 7955-7961.	4.0	9
10	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
11	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
12	New cloud morphologies discovered on the Venus's night during Akatsuki. Icarus, 2019, 333, 177-182.	2.5	20
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	Akatsuki: Pioneering the planetary meteorology of Venus. , 2019, , 10-13.		0
15	Initial products of Akatsuki 1-Î¼m camera. Earth, Planets and Space, 2018, 70, .	2.5	17
16	Editorial: Topical Collection on Venus. Space Science Reviews, 2018, 214, 1.	8.1	2
17	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
18	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

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19	Identification of Jupiterâ€™s magnetic equator through H3+ ionospheric emission. Nature Astronomy, 2018, 2, 773-777.	10.1	17
20	Ultraviolet imager on Venus orbiter Akatsuki and its initial results. Earth, Planets and Space, 2018, 70, 23.	2.5	34
21	Venus looks different from day to night across wavelengths: morphology from Akatsuki multispectral images. Earth, Planets and Space, 2018, 70, 24.	2.5	31
22	The Great Cold Spot in Jupiter's upper atmosphere. Geophysical Research Letters, 2017, 44, 3000-3008.	4.0	7
23	Equatorial jet in the lower to middle cloud layer of Venus revealed by Akatsuki. Nature Geoscience, 2017, 10, 646-651.	12.9	35
24	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
25	Overview of Akatsuki data products: definition of data levels, method and accuracy of geometric correction. Earth, Planets and Space, 2017, 69, .	2.5	20
26	Initial performance of the radio occultation experiment in the Venus orbiter mission Akatsuki. Earth, Planets and Space, 2017, 69, .	2.5	60
27	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
28	Performance of Akatsuki/IR2 in Venus orbit: the first year. Earth, Planets and Space, 2017, 69, .	2.5	28
29	Stationary waves and slowly moving features in the night upper clouds of Venus. Nature Astronomy, 2017, 1, .	10.1	35
30	AKATSUKI returns to Venus. Earth, Planets and Space, 2016, 68, .	2.5	89
31	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
32	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
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	Return to Venus of the Japanese Venus Climate Orbiter AKATSUKI. Acta Astronautica, 2014, 93, 384-389.	3.2	24
35	Cloud top structure of Venus revealed by Subaru/COMICS mid-infrared images. Icarus, 2014, 243, 386-399.	2.5	16
36	Retrieval of jovian cloud structure from the Cassini ISS limb-darkening data. Icarus, 2013, 222, 100-121.	2.5	8

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37	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
38	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
39	Overview of Venus orbiter, Akatsuki. Earth, Planets and Space, 2011, 63, 443-457.	2.5	72
40	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
41	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
42	Planet-C: Venus Climate Orbiter mission of Japan. Planetary and Space Science, 2007, 55, 1831-1842.	1.7	67
43	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
44	Solar Wind Control of Jupiter's H+3Auroras. Icarus, 1996, 120, 437-442.	2.5	79
45	Emission Source Model of Jupiter's H+3Aurorae: A Generalized Inverse Analysis of Images. Icarus, 1996, 122, 1-23.	2.5	75
46	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