# Takehiko Satoh

List of Publications by Year
in descending order



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|---|---|---|---|
| 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 | Correlation of Venusian Mesoscale Cloud Morphology Between Images Acquired at Various Wavelengths. Journal of Geophysical Research E: Planets, 2022, 127, . | 1.5 | 3 |
| 2 | Venus night-side photometry with â€œcleanedâ€•Akatsuki/IR2 data: Aerosol properties and variations of carbon monoxide. Icarus, 2021, 355, 114134. | 1.1 | 4 |
| 3 | The nightside cloud-top circulation of the atmosphere of Venus. Nature, 2021, 595, 511-515. | 13.7 | 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. | 1.1 | 16 |
| 5 | Brightness modulations of our nearest terrestrial planet Venus reveal atmospheric super-rotation rather than surface features. Nature Communications, 2020, 11, 5720. | 5.8 | 10 |
| 6 | A Longâ€Lived Sharp Disruption on the Lower Clouds of Venus. Geophysical Research Letters, 2020, 47, e2020GL087221. | 1.5 | 17 |
| 7 | Dayside cloud top structure of Venus retrieved from Akatsuki IR2 observations. Icarus, 2020, 345, 113682. | 1.1 | 13 |
| 8 | How waves and turbulence maintain the super-rotation of Venusâ€™ atmosphere. Science, 2020, 368, 405-409. | 6.0 | 41 |
| 9 | Constraints on Venus Lightning From Akatsuki's First 3 Years in Orbit. Geophysical Research Letters, 2019, 46, 7955-7961. | 1.5 | 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. | 1.5 | 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. | 1.5 | 26 |
| 12 | New cloud morphologies discovered on the Venus's night during Akatsuki. Icarus, 2019, 333, 177-182. | 1.1 | 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. | 5.8 | 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, . | 0.9 | 17 |
| 16 | Editorial: Topical Collection on Venus. Space Science Reviews, 2018, 214, 1. | 3.7 | 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. | 3.0 | 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. | 0.9 | 8 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Identification of Jupiterâ€™s magnetic equator through H3+ ionospheric emission. Nature Astronomy, 2018, 2, 773-777. | 4.2 | 17 |
| 20 | Ultraviolet imager on Venus orbiter Akatsuki and its initial results. Earth, Planets and Space, 2018, 70, 23. | 0.9 | 34 |
| 21 | Venus looks different from day to night across wavelengths: morphology from Akatsuki multispectral images. Earth, Planets and Space, 2018, 70, 24. | 0.9 | 31 |
| 22 | The Great Cold Spot in Jupiter's upper atmosphere. Geophysical Research Letters, 2017, 44, 3000-3008. | 1.5 | 7 |
| 23 | Equatorial jet in the lower to middle cloud layer of Venus revealed by Akatsuki. Nature Geoscience, 2017, 10, 646-651. | 5.4 | 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. | 1.5 | 46 |
| 25 | Overview of Akatsuki data products: definition of data levels, method and accuracy of geometric correction. Earth, Planets and Space, 2017, 69, . | 0.9 | 20 |
| 26 | Initial performance of the radio occultation experiment in the Venus orbiter mission Akatsuki. Earth, Planets and Space, 2017, 69, . | 0.9 | 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, . | 0.9 | 21 |
| 28 | Performance of Akatsuki/IR2 in Venus orbit: the first year. Earth, Planets and Space, 2017, 69, . | 0.9 | 28 |
| 29 | Stationary waves and slowly moving features in the night upper clouds of Venus. Nature Astronomy, 2017, 1, . | 4.2 | 35 |
| 30 | AKATSUKI returns to Venus. Earth, Planets and Space, 2016, 68, . | 0.9 | 89 |
| 31 | Development and in-flight calibration of IR2: 2-Î¼m camera onboard Japanâ€™s Venus orbiter, Akatsuki. Earth, Planets and Space, 2016, 68, . | 0.9 | 11 |
| 32 | Vertical propagation of planetary-scale waves in variable background winds in the upper cloud region of Venus. Icarus, 2015, 248, 560-568. | 1.1 | 31 |
| 33 | Venusâ€™ clouds as inferred from the phase curves acquired by IR1 and IR2 on board Akatsuki. Icarus, 2015, 248, 213-220. | 1.1 | 13 |
| 34 | Return to Venus of the Japanese Venus Climate Orbiter AKATSUKI. Acta Astronautica, 2014, 93, 384-389. | 1.7 | 24 |
| 35 | Cloud top structure of Venus revealed by Subaru/COMICS mid-infrared images. Icarus, 2014, 243, 386-399. | 1.1 | 16 |
| 36 | Retrieval of jovian cloud structure from the Cassini ISS limb-darkening data. Icarus, 2013, 222, 100-121. | 1.1 | 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. | 1.5 | 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. | 0.9 | 43 |
| 39 | Overview of Venus orbiter, Akatsuki. Earth, Planets and Space, 2011, 63, 443-457. | 0.9 | 72 |
| 40 | Science requirements and description of the 1 Îµm camera onboard the Akatsuki Venus Orbiter. Earth, Planets and Space, 2011, 63, 487-492. | 0.9 | 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. | 0.9 | 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. | 1.1 | 79 |
| 45 | Emission Source Model of Jupiter's H+3Aurorae: A Generalized Inverse Analysis of Images. Icarus, 1996, 122, 1-23. | 1.1 | 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 |