

Hisao Takahashi

List of Publications by Year in descending order

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70
papers

1,886
citations

236925

25
h-index

276875

41
g-index

73
all docs

73
docs citations

73
times ranked

1107
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Magnetospheric disturbance induced equatorial plasma bubble development and dynamics: A case study in Brazilian sector. <i>Journal of Geophysical Research</i> , 2003, 108, . | 3.3 | 152 |
| 2 | Ionospheric plasma bubble climatology over Brazil based on 22 years (1977–1998) of airglow observations. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2002, 64, 1517-1524. | 1.6 | 131 |
| 3 | Simultaneous observation of ionospheric plasma bubbles and mesospheric gravity waves during the SpreadFEx Campaign. <i>Annales Geophysicae</i> , 2009, 27, 1477-1487. | 1.6 | 115 |
| 4 | Gravity wave and tidal influences on equatorial spread F based on observations during the Spread F Experiment (SpreadFEx). <i>Annales Geophysicae</i> , 2008, 26, 3235-3252. | 1.6 | 96 |
| 5 | Convection: the likely source of the medium-scale gravity waves observed in the OH airglow layer near Brasilia, Brazil, during the SpreadFEx campaign. <i>Annales Geophysicae</i> , 2009, 27, 231-259. | 1.6 | 79 |
| 6 | An investigation of gravity wave activity in the low-latitude upper mesosphere: Propagation direction and wind filtering. <i>Journal of Geophysical Research</i> , 2003, 108, . | 3.3 | 77 |
| 7 | Characteristics of mesospheric gravity waves near the magnetic equator, Brazil, during the SpreadFEx campaign. <i>Annales Geophysicae</i> , 2009, 27, 461-472. | 1.6 | 62 |
| 8 | Ionospheric TEC Weather Map Over South America. <i>Space Weather</i> , 2016, 14, 937-949. | 3.7 | 54 |
| 9 | Overview and summary of the Spread F Experiment (SpreadFEx). <i>Annales Geophysicae</i> , 2009, 27, 2141-2155. | 1.6 | 48 |
| 10 | Equatorial plasma bubble seeding by MSTIDs in the ionosphere. <i>Progress in Earth and Planetary Science</i> , 2018, 5, . | 3.0 | 48 |
| 11 | Observations of day-to-day variability in precursor signatures to equatorial F-region plasma depletions. <i>Annales Geophysicae</i> , 1999, 17, 1053-1063. | 1.6 | 44 |
| 12 | The geospace response to variable inputs from the lower atmosphere: a review of the progress made by Task Group 4 of CAWSES-II. <i>Progress in Earth and Planetary Science</i> , 2015, 2, . | 3.0 | 43 |
| 13 | Plasma bubble monitoring by TEC map and 630nm airglow image. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2015, 130-131, 151-158. | 1.6 | 43 |
| 14 | Periodic waves in the lower thermosphere observed by OI630nm airglow images. <i>Annales Geophysicae</i> , 2016, 34, 293-301. | 1.6 | 42 |
| 15 | Comparison of gravity wave activity observed by airglow imaging at two different latitudes in Brazil. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2004, 66, 647-654. | 1.6 | 41 |
| 16 | Reverse ray tracing of the mesospheric gravity waves observed at 23°S (Brazil) and 7°S (Indonesia) in airglow imagers. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2006, 68, 163-181. | 1.6 | 41 |
| 17 | Plasma irregularities in the tropical F-region detected by OI 7774 Å... and 6300 Å... nightglow measurements. <i>Journal of Geophysical Research</i> , 1981, 86, 3496-3500. | 3.3 | 40 |
| 18 | Evidence on 2-4 day oscillations of the equatorial ionosphere h _{min} F and mesospheric airglow emissions. <i>Geophysical Research Letters</i> , 2005, 32, n/a-n/a. | 4.0 | 38 |

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|----|--|-----|-----------|
| 19 | Characteristics of equatorial plasma bubbles observed by TEC map based on ground-based GNSS receivers over South America. <i>Annales Geophysicae</i> , 2018, 36, 91-100. | 1.6 | 38 |
| 20 | Large-scale traveling ionospheric disturbances observed by GPS dTEC maps over North and South America on Saint Patrick's Day storm in 2015. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 4755-4763. | 2.4 | 37 |
| 21 | Medium-scale Traveling Ionospheric Disturbances Observed by Detrended Total Electron Content Maps Over Brazil. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 2215-2227. | 2.4 | 34 |
| 22 | Mesospheric gravity waves observed near equatorial and low-middle latitude stations: wave characteristics and reverse ray tracing results. <i>Annales Geophysicae</i> , 2006, 24, 3229-3240. | 1.6 | 32 |
| 23 | Modeling the equatorial and low-latitude ionospheric response to an intense X-class solar flare. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 3021-3032. | 2.4 | 30 |
| 24 | 16-day wave observed in the meteor winds at low latitudes in the southern hemisphere. <i>Advances in Space Research</i> , 2006, 38, 2615-2620. | 2.6 | 27 |
| 25 | Diagnostics of equatorial and low latitude ionosphere by TEC mapping over Brazil. <i>Advances in Space Research</i> , 2014, 54, 385-394. | 2.6 | 27 |
| 26 | Theoretical and experimental zonal drift velocities of the ionospheric plasma bubbles over the Brazilian region. <i>Advances in Space Research</i> , 2006, 38, 2610-2614. | 2.6 | 26 |
| 27 | Observation of mesospheric gravity waves at Comandante Ferraz Antarctica Station (62° S). <i>Annales Geophysicae</i> , 2009, 27, 2593-2598. | 1.6 | 26 |
| 28 | Investigation of Nighttime MSTIDs Observed by Optical Thermosphere Imagers at Low Latitudes: Morphology, Propagation Direction, and Wind Filtering. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 7843-7857. | 2.4 | 25 |
| 29 | Midnight reversal of ionospheric plasma bubble eastward velocity to westward velocity during geomagnetically quiettime: Climatology and its model validation. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2011, 73, 1520-1528. | 1.6 | 23 |
| 30 | Rocket measurements of the equatorial airglow: MULTIFOT 92 database. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 1996, 58, 1943-1961. | 0.9 | 22 |
| 31 | Atomic oxygen concentrations from rocket airglow observations in the equatorial region. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 1996, 58, 1935-1942. | 0.9 | 22 |
| 32 | Mesospheric gravity waves and ionospheric plasma bubbles observed during the COPEX campaign. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2011, 73, 1575-1580. | 1.6 | 22 |
| 33 | Possible influence of ultra-fast Kelvin wave on the equatorial ionosphere evening uplifting. <i>Earth, Planets and Space</i> , 2009, 61, 455-462. | 2.5 | 21 |
| 34 | Plasma bubble zonal drift characteristics observed by airglow images over Brazilian tropical region. <i>Revista Brasileira De Geofisica</i> , 2011, 29, 239-246. | 0.2 | 20 |
| 35 | Intrinsic parameters of periodic waves observed in the OI6300 airglow layer over the Brazilian equatorial region. <i>Annales Geophysicae</i> , 2018, 36, 265-273. | 1.6 | 16 |
| 36 | Determinação dos parâmetros de ondas de gravidade através da análise espectral de imagens de aeroluminescência. <i>Revista Brasileira De Geofisica</i> , 2007, 25, . | 0.2 | 14 |

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|----|--|-----|-----------|
| 37 | Development of airglow temperature photometers with cooled-CCD detectors. <i>Earth, Planets and Space</i> , 2007, 59, 585-599. | 2.5 | 13 |
| 38 | Forward ray-tracing for medium-scale gravity waves observed during the COPEX campaign. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2012, 90-91, 117-123. | 1.6 | 12 |
| 39 | Seasonal characteristics of small- and medium-scale gravity waves in the mesosphere and lower thermosphere over the Brazilian equatorial region. <i>Annales Geophysicae</i> , 2018, 36, 899-914. | 1.6 | 11 |
| 40 | Seasonal variation of plasma bubbles during solar cycle 23 over the Brazilian equatorial region. <i>Advances in Space Research</i> , 2019, 64, 1365-1374. | 2.6 | 11 |
| 41 | Equatorial Plasma Bubble Occurrence Under Propagation of MSTID and MLT Gravity Waves. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA027566. | 2.4 | 10 |
| 42 | An experimental study of the nightglow OH(8-3) band emission process in the equatorial mesosphere. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 1997, 59, 479-486. | 1.6 | 9 |
| 43 | Atmospheric wind effects on the gravity wave propagation observed at 22.7° S-Brazil. <i>Advances in Space Research</i> , 2003, 32, 819-824. | 2.6 | 9 |
| 44 | Comparison of the OH (8-3) and (6-2) band rotational temperature of the mesospheric airglow emissions. <i>Revista Brasileira De Geofisica</i> , 2004, 22, 223-231. | 0.2 | 9 |
| 45 | First observation of the diurnal and semidiurnal oscillation in the mesospheric winds over São João do Cariri-PB, Brazil. <i>Revista Brasileira De Geofisica</i> , 0, 25, . | 0.2 | 9 |
| 46 | The Prediction of Day-to-Day Occurrence of Low Latitude Ionospheric Strong Scintillation Using Gradient Boosting Algorithm. <i>Space Weather</i> , 2021, 19, e2021SW002884. | 3.7 | 9 |
| 47 | The O ₂ Herzberg I bands in the equatorial nightglow. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 1997, 59, 295-303. | 1.6 | 8 |
| 48 | Atomic oxygen density profiles from ground-based nightglow measurements at 23°S. <i>Journal of Geophysical Research</i> , 2001, 106, 15377-15384. | 3.3 | 8 |
| 49 | Thermospheric F-region travelling disturbances detected at low latitude by an OI 630 nm digital imager system. <i>Advances in Space Research</i> , 2001, 27, 1201-1206. | 2.6 | 8 |
| 50 | Determination of gravity wave parameters in the airglow combining photometer and imager data. <i>Annales Geophysicae</i> , 2018, 36, 705-715. | 1.6 | 8 |
| 51 | Daytime ionospheric TEC weather study over Latin America. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 10,345. | 2.4 | 8 |
| 52 | Ultrafast Kelvin waves in the MLT airglow and wind, and their interaction with the atmospheric tides. <i>Annales Geophysicae</i> , 2018, 36, 231-241. | 1.6 | 8 |
| 53 | Case study of mesospheric front dissipation observed over the northeast of Brazil. <i>Annales Geophysicae</i> , 2018, 36, 311-319. | 1.6 | 8 |
| 54 | First results from mesospheric airglow observations at 7.5° S. <i>Revista Brasileira De Geofisica</i> , 2001, 19, 169. | 0.2 | 7 |

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|----|--|-----|-----------|
| 55 | Planetary wave induced wind and airglow oscillations in the middle latitude MLT region. Journal of Atmospheric and Solar-Terrestrial Physics, 2013, 98, 97-104. | 1.6 | 7 |
| 56 | Lunar tides in total electron content over Brazil. Journal of Geophysical Research: Space Physics, 2017, 122, 7519-7529. | 2.4 | 7 |
| 57 | Atmospheric Gravity Waves Observed in the Nightglow Following the 21 August 2017 Total Solar Eclipse. Geophysical Research Letters, 2020, 47, e2020GL088924. | 4.0 | 7 |
| 58 | Climatology of equatorial and low-latitude F region kilometer-scale irregularities over the meridian circle around 120°E/60°W. GPS Solutions, 2021, 25, 1. | 4.3 | 7 |
| 59 | Why Do Equatorial Plasma Bubbles Bifurcate?. Journal of Geophysical Research: Space Physics, 2020, 125, e2020JA028609. | 2.4 | 6 |
| 60 | Asymmetric Development of Equatorial Plasma Bubbles Observed at Geomagnetically Conjugate Points Over the Brazilian Sector. Journal of Geophysical Research: Space Physics, 2022, 127, . | 2.4 | 6 |
| 61 | Effects of the planetary waves on the MLT airglow. Annales Geophysicae, 2017, 35, 1023-1032. | 1.6 | 5 |
| 62 | Long-Term Study on Medium-Scale Traveling Ionospheric Disturbances Observed over the South American Equatorial Region. Atmosphere, 2021, 12, 1409. | 2.3 | 5 |
| 63 | Case Studies on Concentric Gravity Waves Source Using Lightning Flash Rate, Brightness Temperature and Backward Ray Tracing at São Martinho da Serra (29.44°S, 53.82°W). Journal of Geophysical Research D: Atmospheres, 2021, 126, e2020JD034527. | 3.3 | 4 |
| 64 | Semimonthly oscillation observed in the start times of equatorial plasma bubbles. Annales Geophysicae, 2020, 38, 437-443. | 1.6 | 3 |
| 65 | Nighttime Ionospheric TEC Study Over Latin America During Moderate and High Solar Activity. Journal of Geophysical Research: Space Physics, 2020, 125, e2020JA028210. | 2.4 | 2 |
| 66 | Disconnection and Reconnection in Plasma Bubbles Observed by OI 630nm Airglow Images From Cariri Observatory. Journal of Geophysical Research: Space Physics, 2022, 127, . | 2.4 | 2 |
| 67 | CARACTERISTICS OF IONOSPHERIC PLASMA BUBBLES OBSERVED BY TEC MAPS IN BRAZILIAN SECTOR. , 2017, , . | | 1 |
| 68 | Influence of the semidiurnal lunar tide in the equatorial plasma bubble zonal drifts over Brazil. Annales Geophysicae, 2021, 39, 1005-1012. | 1.6 | 1 |
| 69 | Study of the gravity wave propagation direction observed by airglow imaging in the South American sector. , 2005, , . | | 0 |
| 70 | Processamento de Dados de Rádio Ocultação da Constelação de Satélites COSMIC-2. , 2015, , . | | 0 |