# Yasuhiro Murayama

List of Publications by Year
in descending order



| 80 | 2,556 | 218677 | 206112 |
|---|---|---|---|
| papers | citations | 26 h-index | 48 g-index |

| 85 | 85 | 85 | 2027 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | An empirical model of the Earth's horizontal wind fields: HWM07. Journal of Geophysical Research, 2008, 113, . | 3.3 | 448 |
| 2 | Latitudinal and longitudinal variability of mesospheric winds and temperatures during stratospheric warming events. Journal of Atmospheric and Solar-Terrestrial Physics, 2007, 69, 2355-2366. | 1.6 | 158 |
| 3 | Seasonal variation of momentum flux in the mesosphere observed with the MU radar. Geophysical Research Letters, 1990, 17, 725-728. | 4.0 | 151 |
| 4 | Validation of ozone measurements from the Atmospheric Chemistry Experiment (ACE). Atmospheric Chemistry and Physics, 2009, 9, 287-343. | 4.9 | 134 |
| 5 | Overview and early results of the Superconducting Submillimeterâ€Wave Limbâ€Emission Sounder (SMILES). Journal of Geophysical Research, 2010, 115, . | 3.3 | 127 |
| 6 | Planetary waves in coupling the stratosphere and mesosphere during the major stratospheric warming in 2003/2004. Journal of Geophysical Research, 2008, 113, . | 3.3 | 109 |
| 7 | Observations of the 5-day wave in the mesosphere and lower thermosphere. Journal of Atmospheric and Solar-Terrestrial Physics, 2006, 68, 323-339. | 1.6 | 90 |
| 8 | Variations of the gravity wave characteristics with height, season and latitude revealed by comparative observations. Journal of Atmospheric and Solar-Terrestrial Physics, 1994, 56, 555-568. | 0.9 | 83 |
| 9 | Validation of the Atmospheric Chemistry Experiment (ACE) version 2.2 temperature using ground-based and space-borne measurements. Atmospheric Chemistry and Physics, 2008, 8, 35-62. | 4.9 | 68 |
| 10 | MF radar observations of seasonal variability of semidiurnal motions in the mesosphere at high northern and southern latitudes. Journal of Atmospheric and Solar-Terrestrial Physics, 2003, 65, 483-493. | 1.6 | 66 |
| 11 | Mesosphere/lower thermosphere prevailing wind model. Advances in Space Research, 2004, 34, 1755-1762. | 2.6 | 52 |
| 12 | Latitudinal wave coupling of the stratosphere and mesosphere during the major stratospheric warming in 2003/2004. Annales Geophysicae, 2008, 26, 467-483. | 1.6 | 52 |
| 13 | Polar mesosphere and lower thermosphere dynamics: 1. Mean wind and gravity wave climatologies. Journal of Geophysical Research, 2007, 112, . | 3.3 | 50 |
| 14 | The Level 2 research product algorithms for the Superconducting Submillimeter-Wave Limb-Emission Sounder (SMILES). Atmospheric Measurement Techniques, 2011, 4, 2105-2124. | 3.1 | 49 |
| 15 | Typhoon-induced concentric airglow structures in the mesopause region. Geophysical Research Letters, 2013, 40, 5983-5987. | 4.0 | 40 |
| 16 | A comparison of mean winds and gravity wave activity in the northern and southern polar MLT. Geophysical Research Letters, 2001, 28, 1475-1478. | 4.0 | 39 |
| 17 | Performance and Technique of Coherent 2-Î¼m Differential Absorption and Wind Lidar for Wind Measurement. Journal of Atmospheric and Oceanic Technology, 2013, 30, 429-449. | 1.3 | 36 |
| 18 | Energy distribution of precipitating electrons estimated from optical and cosmic noise absorption measurements. Annales Geophysicae, 2004, 22, 1613-1622. | 1.6 | 35 |

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| 19 | Comparison of wind measurements between Yamagawa MF Radar and the MU Radar. Geophysical Research Letters, 1996, 23, 3341-3344. | 4.0 | 31 |
| 20 | Equivalent electron densities at reflection heights of tweek atmospherics in the low-middle latitude D-region ionosphere. Earth, Planets and Space, 2003, 55, 627-635. | 2.5 | 31 |
| 21 | Longitudinal and latitudinal variations in dynamic characteristics of the MLT (70â˜95km): a study involving the CUJO network. Annales Geophysicae, 2004, 22, 347-365. | 1.6 | 31 |
| 22 | Polar mesosphere and lower thermosphere dynamics: 2. Response to sudden stratospheric warmings. Journal of Geophysical Research, 2007, 112, . | 3.3 | 31 |
| 23 | Evidence of gravity wave ducting in the mesopause region from airglow network observations. Geophysical Research Letters, 2013, 40, 601-605. | 4.0 | 30 |
| 24 | Using tweek atmospherics to measure the response of the low-middle latitude D-region ionosphere to a magnetic storm. Journal of Atmospheric and Solar-Terrestrial Physics, 2006, 68, 697-709. | 1.6 | 27 |
| 25 | Large-scale thermodynamics of the stratosphere and mesosphere during the major stratospheric warming in 2003/2004. Journal of Atmospheric and Solar-Terrestrial Physics, 2007, 69, 2338-2354. | 1.6 | 27 |
| 26 | A case study of the mesospheric 6.5â€day wave observed by radar systems. Journal of Geophysical Research, 2008, 113, . | 3.3 | 27 |
| 27 | Characteristics of nighttime medium-scale traveling ionospheric disturbances observed over Alaska. Journal of Geophysical Research, 2011, 116, . | 3.3 | 26 |
| 28 | Tides near the Arctic summer mesopause during the MaCWAVE/MIDAS summer program. Geophysical Research Letters, 2005, 32, n/a-n/a. | 4.0 | 24 |
| 29 | Ozone profiles in the high-latitude stratosphere and lower mesosphere measured by the Improved Limb Atmospheric Spectrometer (ILAS)-II: Comparison with other satellite sensors and ozonesondes. Journal of Geophysical Research, 2006, 111, . | 3.3 | 24 |
| 30 | Planetary wave coupling processes in the middle atmosphere (30â€“90km): A study involving MetO and MFR data. Journal of Atmospheric and Solar-Terrestrial Physics, 2006, 68, 353-368. | 1.6 | 23 |
| 31 | Dualâ€Doppler lidar observation of horizontal convective rolls and nearâ€surface streaks. Geophysical Research Letters, 2008, 35, . | 4.0 | 23 |
| 32 | Dominant vertical scales of gravity waves in the middle atmosphere observed with the MU radar and rocketsondes. Journal of Atmospheric and Solar-Terrestrial Physics, 1992, 54, 339-346. | 0.9 | 22 |
| 33 | MF radar observations of terdiurnal tide in the mesosphere and lower thermosphere at Wakkanai , Japan. Journal of Atmospheric and Solar-Terrestrial Physics, 2004, 66, 241-250. | 1.6 | 22 |
| 34 | Polar vortex evolution during Northern Hemispheric winter 2004/05. Annales Geophysicae, 2007, 25, 1279-1298. | 1.6 | 22 |
| 35 | Winter warmings, tides and planetary waves: comparisions between CMAM (with interactive) Tj ETQq1 1 0.784314 rgBT /Overlock 10 | 1.6 | 20 |
| 36 | Noctilucent cloud in the western Arctic in 2005: Simultaneous lidar and camera observations and analysis. Journal of Atmospheric and Solar-Terrestrial Physics, 2009, 71, 446-452. | 1.6 | 18 |

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| 37 | Interlinking open science and community-based participatory research for socio-environmental issues. Current Opinion in Environmental Sustainability, 2019, 39, 54-61. | 6.3 | 18 |
| 38 | Ground-based measurement of stratoâ€“mesospheric CO by a FTIR spectrometer over Poker Flat, Alaska. Advances in Space Research, 2005, 35, 2024-2030. | 2.6 | 17 |
| 39 | Strong Updraft at a Sea-Breeze Front and Associated Vertical Transport of Near-Surface Dense Aerosol Observed by Doppler Lidar and Ceilometer. Boundary-Layer Meteorology, 2011, 141, 117-142. | 2.3 | 17 |
| 40 | Simultaneous mesosphere/lower thermosphere and thermosphericFregion observations during geomagnetic storms. Journal of Geophysical Research, 2004, 109, . | 3.3 | 15 |
| 41 | D-region electron density measurements by MF radar in the middle and high latitudes. Advances in Space Research, 2000, 25, 25-32. | 2.6 | 14 |
| 42 | Long-Period wind oscillations in the mesosphere and lower thermosphere at Yamagawa (32Â°N,131Â°E), Pontianak (0Â°N,109Â°E) and Christmas Island (2Â°N,157Â°W). Journal of Atmospheric and Solar-Terrestrial Physics, 2002, 64, 1055-1067. | 1.6 | 12 |
| 43 | Satellite and groundâ€based observations of auroral energy deposition and the effects on thermospheric composition during large geomagnetic storms: 1. Great geomagnetic storm of 20 November 2003. Journal of Geophysical Research, 2008, 113, . | 3.3 | 12 |
| 44 | Cooperative wind observation in the upper mesosphere and lower thermosphere with foil chaff technique, the MU radar, and Yamagawa MF radar. Earth, Planets and Space, 1999, 51, 719-729. | 2.5 | 11 |
| 45 | Seasonal variations of CO and HCN in the troposphere measured by solar absorption spectroscopy over Poker Flat, Alaska. Geophysical Research Letters, 2005, 32, n/a-n/a. | 4.0 | 11 |
| 46 | A Preliminary Report on Radiosonde Observations of the Equatorial Atmosphere Dynamics over Indonesia.. Journal of Geomagnetism and Geoelectricity, 1992, 44, 1041-1055. | 0.9 | 11 |
| 47 | The wave2000 campaign: overview and preliminary results. Journal of Atmospheric and Solar-Terrestrial Physics, 2002, 64, 1095-1104. | 1.6 | 10 |
| 48 | Volcanic Ash Transport from Mount Asama to the Tokyo Metropolitan Area Influenced by Large-Scale Local Wind Circulation. Journal of Applied Meteorology and Climatology, 2008, 47, 1248-1265. | 1.5 | 10 |
| 49 | Validation of Refractivity Profiles Retrieved from FORMOSAT-3/COSMIC Radio Occultation Soundings: Preliminary Results of Statistical Comparisons Utilizing Balloon-Borne Observations. Terrestrial, Atmospheric and Oceanic Sciences, 2009, 20, 51. | 0.6 | 10 |
| 50 | The Formation of Sharp Multi-Layered Wind Structure over Tokyo Associated with Sea-breeze Circulation. Scientific Online Letters on the Atmosphere, 2009, 5, 1-4. | 1.4 | 10 |
| 51 | Development of a high-resolution imaging riometer for the middle and upper atmosphere observation program at Poker Flat, Alaska. Journal of Atmospheric and Solar-Terrestrial Physics, 1997, 59, 925-937. | 1.6 | 9 |
| 52 | Rayleigh lidar observations of temperature over Tsukuba: winter thermal structure and comparison studies. Earth, Planets and Space, 1999, 51, 825-832. | 2.5 | 9 |
| 53 | Validation of ILAS-II version 1.4 O3, HNO3, and temperature data through comparison with ozonesonde, ground-based FTS, and lidar measurements in Alaska. Journal of Geophysical Research, 2006, 111, . | 3.3 | 9 |
| 54 | Wind Profiling with an Eye-Safe Coherent Doppler Lidar System: Comparison with Radiosondes and VHF Radar. Journal of the Meteorological Society of Japan, 2005, 83, 1041-1056. | 1.8 | 8 |

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| 55 | Gravity wave activity in the upper stratosphere and lower mesosphere observed with the Rayleigh lidar at Tsukuba, Japan. Geophysical Research Letters, 1994, 21, 1539-1542. | 4.0 | 7 |
| 56 | A fast-propagating, large-scale atmospheric gravity wave observed in the WAVE2004 campaign. Journal of Geophysical Research, 2006, 111, . | 3.3 | 7 |
| 57 | Tidal waves in the polar lower thermosphere observed using the EISCAT long run data set obtained in September 2005. Journal of Geophysical Research, 2010, 115, . | 3.3 | 7 |
| 58 | 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 |
| 59 | Comparison between CNA and energetic electron precipitation: simultaneous observation by Poker Flat Imaging Riometer and NOAA satellite. Annales Geophysicae, 2005, 23, 1555-1563. | 1.6 | 6 |
| 60 | Stratomesospheric CO measured by a groundâ€based Fourier Transform Spectrometer over Poker Flat, Alaska: Comparisons with Odin/SMR and a 2â€D model. Journal of Geophysical Research, 2007, 112, . | 3.3 | 6 |
| 61 | Mesosphere summer echoes observed with VHF and MF radars at Wakkanai, Japan (45.4Â°N). Journal of Atmospheric and Solar-Terrestrial Physics, 2011, 73, 2132-2141. | 1.6 | 6 |
| 62 | Tidal modulations of mesospheric gravity wave kinetic energy observed with MF radar at Poker Flat Research Range, Alaska. Journal of Geophysical Research D: Atmospheres, 2015, 120, 6379-6390. | 3.3 | 6 |
| 63 | Field-aligned ion motions in the polarE-Ftransition region: Mean characteristics. Journal of Geophysical Research, 2003, 108, . | 3.3 | 5 |
| 64 | Foil chaff ejection systems for rocket-borne measurement of neutral winds in the mesosphere and lower thermosphere. Review of Scientific Instruments, 2004, 75, 2346-2350. | 1.3 | 5 |
| 65 | Waves in airglow structures experiment 2004: Overview and preliminary results. Advances in Space Research, 2005, 35, 1964-1970. | 2.6 | 5 |
| 66 | Influence of Surface-Based Stable Layer Development on Asian Dust Behaviour Over Tokyo. Boundary-Layer Meteorology, 2009, 131, 263-275. | 2.3 | 5 |
| 67 | Meso-Î³-scale convective systems observed by a 443-MHz wind-profiling radar with RASS in the Okinawa subtropical region. Journal of Atmospheric and Solar-Terrestrial Physics, 2011, 73, 996-1009. | 1.6 | 5 |
| 68 | Spectral type of auroral precipitating electrons estimated from optical and cosmic noise absorption measurements. Journal of Geophysical Research, 2006, 111, . | 3.3 | 4 |
| 69 | Mesosphere summer echoes observed with the SuperDARN Hokkaido HF radar at Rikubetsu, Japan (43.5Â°N). Earth, Planets and Space, 2013, 65, 1593-1597. | 2.5 | 4 |
| 70 | Rayleigh lidar and Rayleigh Doppler lidar for measurement of the Arctic atmosphere. , 2001, 4153, 505. | | 3 |
| 71 | In situ observations of instabilities in the mesopause region using foil chaff technique during the Waves in Airglow Structures Experiment (WAVE) campaigns. Journal of Geophysical Research, 2009, 114, . | 3.3 | 3 |
| 72 | Wind observations in the MLT region over Southern Japan, by using foil chaff technique, Yamagawa MF radar and the NW radar. Advances in Space Research, 1999, 24, 575-578. | 2.6 | 1 |

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| 73 | Effects of auroral arcs on the generation of gravity waves in the auroral F-region. Advances in Space Research, 2001, 27, 1767-1772. | 2.6 | 1 |
| 74 | <title>Method and results of retrieval of HDO/H<formula><inf><roman>2</roman></inf></formula>O in atmosphere from IMG/ADEOS and FTIR data</title>. , 2006, , . | | 1 |
| 75 | STRUCTURE OF TURBULENCE IN THE URBAN ATMOSPHERIC BOUNDARY LAYER DETECTED IN THE DOPPLER LIDAR OBSERVATION. Journal of Japan Society of Civil Engineers Ser B1 (Hydraulic Engineering), 2011, 67, I_313-I_318. | 0.1 | 1 |
| 76 | Observations of temperature profiles by 443 MHz wind profiling radar using a radio acoustic sounding system in Okinawa. Journal of Atmospheric and Solar-Terrestrial Physics, 2011, 73, 1010-1019. | 1.6 | 1 |
| 77 | Solar-Terrestrial Data Analysis and Reference System (STARS) - Its High Potentiality for Collaborative Research. Data Science Journal, 2013, 12, WDS225-WDS228. | 1.3 | 1 |
| 78 | MF/HF/VHF Radar Observations of Polar Mesosphere Summer Echoes (PMSE). IEEE National Radar Conference - Proceedings, 2007, , . | 0.0 | 0 |
| 79 | STRUCTURE OF STABLE NOCTURNAL BOUNDARY LAYER IN URBAN AREA DETECTED IN A DOPPLER LIDAR OBSERVATION. Journal of Japan Society of Civil Engineers Ser B1 (Hydraulic Engineering), 2012, 68, I_1777-I_1782. | 0.1 | 0 |
| 80 | Establishment of WDS-International Programme Office and Japanese Contribution. Trends in the Sciences, 2012, 17, 6_24-6_26. | 0.0 | 0 |