

# Shao Dong Zhang

## List of Publications by Year in descending order

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143  
papers

2,419  
citations

218381

26  
h-index

288905

40  
g-index

144  
all docs

144  
docs citations

144  
times ranked

1692  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | Climatology of the planetary boundary layer over the continental United States and Europe. Journal of Geophysical Research, 2012, 117, .  | 3.3 | 297       |
| 2  | Investigation of near-global daytime boundary layer height using high-resolution radiosondes: first results and comparison with ERA5, MERRA-2, JRA-55, and NCEP-2 reanalyses. Atmospheric Chemistry and Physics, 2021, 21, 17079-17097. | 1.9 | 99        |
| 3  | Trends in Planetary Boundary Layer Height over Europe. Journal of Climate, 2013, 26, 10071-10076.   | 1.2 | 86        |
| 4  | Latitudinal and seasonal variations of inertial gravity wave activity in the lower atmosphere over central China. Journal of Geophysical Research, 2007, 112, .   | 3.3 | 58        |
| 5  | A statistical study of gravity waves from radiosonde observations at Wuhan (30° N, 114° E) China. Annales Geophysicae, 2005, 23, 665-673.   | 0.6 | 55        |
| 6  | Self-Template Synthesis of Ag@Pt Hollow Nanospheres as Electrocatalyst for Methanol Oxidation Reaction. Langmuir, 2017, 33, 5991-5997.  | 1.6 | 44        |
| 7  | A numerical study of propagation characteristics of gravity wave packets propagating in a dissipative atmosphere. Journal of Geophysical Research, 2002, 107, ACL 14-1.   | 3.3 | 43        |
| 8  | Climatology of the diurnal tides from eCMAM30 (1979 to 2010) and its comparison with SABER. Earth, Planets and Space, 2014, 66, 103.  | 0.9 | 41        |
| 9  | Numerical simulation of the 6-day wave effects on the ionosphere: Dynamo modulation. Journal of Geophysical Research: Space Physics, 2016, 121, 10,103.   | 0.8 | 41        |
| 10 | Global climatological variability of quasi-two-day waves revealed by TIMED/SABER observations. Annales Geophysicae, 2013, 31, 1061-1075.  | 0.6 | 38        |
| 11 | Nonlinear coupling between quasi 2-day wave and tides based on meteor radar observations at Maui. Journal of Geophysical Research D: Atmospheres, 2013, 118, 10,936.  | 1.2 | 36        |
| 12 | Formation and Evolution of Low-Latitude Region Field-Aligned Irregularities During the 8 September 2017 Storm: Hainan Coherent Scatter Phased Array Radar and Digisonde Observations. Space Weather, 2018, 16, 648-659.                 | 1.3 | 35        |
| 13 | High vertical resolution analyses of gravity waves and turbulence at a midlatitude station. Journal of Geophysical Research, 2012, 117, .   | 3.3 | 34        |
| 14 | Midlatitude ionospheric responses to the 2013 SSW under high solar activity. Journal of Geophysical Research: Space Physics, 2016, 121, 790-803.  | 0.8 | 34        |
| 15 | Responses of Quasi 2-Day Waves in the MLT Region to the 2013 SSW Revealed by a Meteor Radar Chain. Geophysical Research Letters, 2017, 44, 9142-9150.   | 1.5 | 34        |
| 16 | Simultaneous observations of sporadic Fe and Na layers by two closely colocated resonance fluorescence lidars at Wuhan (30.5°N, 114.4°E), China. Journal of Geophysical Research, 2007, 112, .  | 3.3 | 33        |
| 17 | Seasonal variations of the nocturnal mesospheric Na and Fe layers at 30°N. Journal of Geophysical Research, 2009, 114, .  | 3.3 | 33        |
| 18 | TIMED/SABER observations of lower mesospheric inversion layers at low and middle latitudes. Journal of Geophysical Research, 2012, 117, .   | 3.3 | 33        |

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|----|---|-----|-----------|
| 19 | Latitudinal and altitudinal variability of lower atmospheric inertial gravity waves revealed by U.S. radiosonde data. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 7750-7764.   | 1.2 | 33        |
| 20 | Lidar observations of sporadic Na layers over Wuhan (30.5°N, 114.4°E). <i>Geophysical Research Letters</i> , 2002, 29, 59-1-59-4.   | 1.5 | 32        |
| 21 | Observations of thermosphere and ionosphere changes due to the dissipative 6.5-day wave in the lower thermosphere. <i>Annales Geophysicae</i> , 2015, 33, 913-922.  | 0.6 | 32        |
| 22 | Latitudinal and seasonal variations of lower atmospheric inertial gravity wave energy revealed by US radiosonde data. <i>Annales Geophysicae</i> , 2010, 28, 1065-1074.   | 0.6 | 30        |
| 23 | Study of the Quasi-5-Day Wave in the MLT Region by a Meteor Radar Chain. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 9474-9487.  | 1.2 | 30        |
| 24 | A numerical study of nonlinear propagation of a gravity-wave packet in compressible atmosphere. <i>Journal of Geophysical Research</i> , 1999, 104, 14261-14270.  | 3.3 | 27        |
| 25 | A nonlinear interaction event between a 16-day wave and a diurnal tide from meteor radar observations. <i>Annales Geophysicae</i> , 2013, 31, 2039-2048.  | 0.6 | 27        |
| 26 | Atmospheric tides in the low-latitude $<i>E</i>$ and $<i>F</i>$ regions and their responses to a sudden stratospheric warming event in January 2010. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 7913-7927.  | 0.8 | 27        |
| 27 | Midnight ionosphere collapse at Arecibo and its relationship to the neutral wind, electric field, and ambipolar diffusion. <i>Journal of Geophysical Research</i> , 2012, 117, .  | 3.3 | 26        |
| 28 | Self-Acceleration and Instability of Gravity Wave Packets: 2. Two-Dimensional Packet Propagation, Instability Dynamics, and Transient Flow Responses. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2019JD030691.   | 1.2 | 26        |
| 29 | Nonlinear interaction of gravity waves in a nonisothermal and dissipative atmosphere. <i>Annales Geophysicae</i> , 2014, 32, 263-275.   | 0.6 | 23        |
| 30 | Temperature responses to the 11-year solar cycle in the mesosphere from the 31-year (1979-2010) extended Canadian Middle Atmosphere Model simulations and a comparison with the 14-year (2002-2015) TIMED/SABER observations. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 4801-4818. | 0.8 | 23        |
| 31 | Gravity wave excitation through resonant interaction in a compressible atmosphere. <i>Geophysical Research Letters</i> , 2009, 36, .  | 1.5 | 22        |
| 32 | Low-latitude daytime $<i>F</i>$ region irregularities observed in two geomagnetically quiet days by the Hainan coherent scatter phased array radar (HCOPAR). <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 2645-2654.  | 0.8 | 22        |
| 33 | Hainan Coherent Scatter Phased Array Radar (HCOPAR): System Design and Ionospheric Irregularity Observations. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2017, 55, 4757-4765.  | 2.7 | 21        |
| 34 | MF radar observation of mean wind and tides of winter mesopause (80°) region over Wuhan (30°N), Tj ETQq0 0.0 rgBT /Qyerlock 10  | 0.6 | 20        |
| 35 | Reflection and transmission of atmospheric gravity waves in a stably sheared horizontal wind field. <i>Journal of Geophysical Research</i> , 2010, 115, .   | 3.3 | 20        |
| 36 | Annual and interannual variations in global 6.5DWs from 20 to 110 km during 2002-2016 observed by TIMED/SABER. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 8985-9002.  | 0.8 | 20        |

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|----|---|-----|-----------|
| 37 | Quasi 10 $\omega$ - and 16 $\omega$ -Day Wave Activities Observed Through Meteor Radar and MST Radar During Stratospheric Final Warming in 2015 Spring. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 6040-6056.           | 1.2 | 20        |
| 38 | Simultaneous and common-volume three-lidar observations of sporadic metal layers in the mesopause region. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2013, 102, 172-184.   | 0.6 | 19        |
| 39 | A Study on the Quarterdiurnal Tide in the Thermosphere at Arecibo During the February 2016 Sudden Stratospheric Warming Event. <i>Geophysical Research Letters</i> , 2018, 45, 13,142.  | 1.5 | 19        |
| 40 | Latitudinal and Topographical Variabilities of Free Atmospheric Turbulence From High-Resolution Radiosonde Data Sets. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 4283-4298.   | 1.2 | 19        |
| 41 | A numerical study on the propagation and evolution of resonant interacting gravity waves. <i>Journal of Geophysical Research</i> , 2004, 109, .   | 3.3 | 18        |
| 42 | Diurnal variations of the planetary boundary layer height estimated from intensive radiosonde observations over Yichang, China. <i>Science China Technological Sciences</i> , 2014, 57, 2172-2176.  | 2.0 | 18        |
| 43 | The interaction between the tropopause inversion layer and the inertial gravity wave activities revealed by radiosonde observations at a midlatitude station. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 8099-8111.     | 1.2 | 18        |
| 44 | A Statistical Analysis of the Propagating Quasi 16 $\omega$ -Day Waves at High Latitudes and Their Response to Sudden Stratospheric Warmings From 2005 to 2018. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 12617-12630. | 1.2 | 18        |
| 45 | Intensive radiosonde observations of the diurnal tide and planetary waves in the lower atmosphere over Yichang (111 $^{\circ}$ 18' E, 30 $^{\circ}$ 42' N), China. <i>Annales Geophysicae</i> , 2009, 27, 1079-1095.                            | 0.6 | 17        |
| 46 | Intensive radiosonde observations of lower tropospheric inversion layers over Yichang, China. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2009, 71, 180-190.  | 0.6 | 17        |
| 47 | Spatial and seasonal variability of medium- and high-frequency gravity waves in the lower atmosphere revealed by US radiosonde data. <i>Annales Geophysicae</i> , 2014, 32, 1129-1143.  | 0.6 | 16        |
| 48 | Statistical Study of Atmospheric Turbulence by Thorpe Analysis. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 2897-2908.   | 1.2 | 16        |
| 49 | A numerical study on amplitude characteristics of the terdiurnal tide excited by nonlinear interaction between the diurnal and semidiurnal tides. <i>Earth, Planets and Space</i> , 2007, 59, 183-191.  | 0.9 | 15        |
| 50 | A numerical study on nonresonant interactions of gravity waves in a compressible atmosphere. <i>Journal of Geophysical Research</i> , 2007, 112, .  | 3.3 | 15        |
| 51 | Propagation and reflection of gravity waves in a meridionally sheared wind field. <i>Journal of Geophysical Research</i> , 2008, 113, .   | 3.3 | 15        |
| 52 | Atmospheric waves and their interactions in the thermospheric neutral wind as observed by the Arecibo incoherent scatter radar. <i>Journal of Geophysical Research</i> , 2012, 117, .   | 3.3 | 15        |
| 53 | The $F_2$ region and topside ionosphere response to a strong geomagnetic storm at Arecibo. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 5177-5183.  | 0.8 | 15        |
| 54 | Simultaneous upward and downward propagating inertia-gravity waves in the MLT observed at Andes Lidar Observatory. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 2812-2830.  | 1.2 | 15        |

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|----|---|-----|-----------|
| 55 | Study of Mean Wind Variations and Gravity Wave Forcing Via a Meteor Radar Chain and Comparison with HWM07 Results. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 9488-9501.  | 1.2 | 15        |
| 56 | Observational evidence of quasi-27-day oscillation propagating from the lower atmosphere to the mesosphere over 20° N. <i>Annales Geophysicae</i> , 2015, 33, 1321-1330.  | 0.6 | 15        |
| 57 | Some ubiquitous features of the mesospheric Fe and Na layer borders from simultaneous and common-volume Fe and Na lidar observations. <i>Journal of Geophysical Research</i> , 2008, 113, .   | 3.3 | 14        |
| 58 | A Statistical Study of Inertia Gravity Waves in the Lower Stratosphere Over the Arctic Region Based on Radiosonde Observations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 4958-4976.                             | 1.2 | 14        |
| 59 | Study of the Quasi 10-Day Waves in the MLT Region During the 2018 February SSW by a Meteor Radar Chain. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028367.   | 0.8 | 14        |
| 60 | Third-order resonant interaction of atmospheric gravity waves. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 2197-2206.  | 1.2 | 13        |
| 61 | Climatology of global gravity wave activity and dissipation revealed by SABER/TIMED temperature observations. <i>Science China Technological Sciences</i> , 2014, 57, 998-1009.   | 2.0 | 13        |
| 62 | MST Radars of Chinese Meridian Project: System Description and Atmospheric Wind Measurement. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2016, 54, 4513-4523.   | 2.7 | 13        |
| 63 | An incoherent scatter radar study of the midnight temperature maximum that occurred at Arecibo during a sudden stratospheric warming event in January 2010. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 5571-5578. | 0.8 | 13        |
| 64 | Climatology of the Quasi-6-Day Wave in the Mesopause Region and Its Modulations on Total Electron Content During 2003-2017. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 573-583.                                   | 0.8 | 13        |
| 65 | Study of a Quasi 4-Day Oscillation During the 2018/2019 SSW Over Mohe, China. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA027687.   | 0.8 | 13        |
| 66 | Inertia-gravity wave energy and instability drive turbulence: evidence from a near-global high-resolution radiosonde dataset. <i>Climate Dynamics</i> , 2022, 58, 2927-2939.  | 1.7 | 13        |
| 67 | Vertical wavenumber spectra of three-dimensional winds revealed by radiosonde observations at midlatitude. <i>Annales Geophysicae</i> , 2017, 35, 107-116.  | 0.6 | 12        |
| 68 | Climatological characteristics of planetary boundary layer height over Japan. <i>International Journal of Climatology</i> , 2019, 39, 4015-4028.  | 1.5 | 12        |
| 69 | Climatology and Anomaly of the Quasi-Two-Day Wave Behaviors During 2003-2018 Austral Summer Periods. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 544-556.  | 0.8 | 12        |
| 70 | A Case Study of the Daytime Intense Radar Backscatter and Strong Ionospheric Scintillation Related to the Low-Latitude E-Region Irregularities. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA027532.         | 0.8 | 12        |
| 71 | A numerical study on global propagations and amplitude growths of large-scale gravity wave packets. <i>Journal of Geophysical Research</i> , 2004, 109, .   | 3.3 | 11        |
| 72 | A numerical study of the impact of nonlinearity on the amplitude of the migrating diurnal tide. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2007, 69, 631-648.  | 0.6 | 11        |

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|----|---|-----|-----------|
| 73 | Observations of gravity wave activity during stratospheric sudden warmings in the Northern Hemisphere. <i>Science China Technological Sciences</i> , 2015, 58, 951-960.   | 2.0 | 11        |
| 74 | The design of a form-changing female fitting robot. <i>Journal of Advanced Mechanical Design, Systems and Manufacturing</i> , 2016, 10, JAMDSM0097-JAMDSM0097.  | 0.3 | 11        |
| 75 | Planetary Wave Characteristics in the Lower Atmosphere Over Xianghe (117.00°E, 39.77°N), China, Revealed by the Beijing MST Radar and MERRA Data. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 9745-9758.                                   | 1.2 | 11        |
| 76 | Frequency variations of gravity waves interacting with a time-varying tide. <i>Annales Geophysicae</i> , 2013, 31, 1731-1743.   | 0.6 | 10        |
| 77 | Low-frequency oscillations of the gravity wave energy density in the lower atmosphere at low latitudes revealed by U.S. radiosonde data. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 13,458.   | 1.2 | 10        |
| 78 | Latitudinal and Seasonal Variations of Vertical Wave Number Spectra of Three-Dimensional Winds Revealed by Radiosonde Observations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 13,174.  | 1.2 | 10        |
| 79 | Laboratory fabrication of monolithic interferometers for one and two-dimensional spatial heterodyne spectrometers. <i>Optics Express</i> , 2017, 25, 29121.   | 1.7 | 10        |
| 80 | Statistical Study of the Midlatitude Mesospheric Vertical Winds Observed by the Wuhan and Beijing MST Radars in China. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2020JD032776.  | 1.2 | 10        |
| 81 | A numerical study on the impact of nonlinear interactions on the amplitude of the migrating semidiurnal tide. <i>Annales Geophysicae</i> , 2006, 24, 3241-3256.   | 0.6 | 9         |
| 82 | Atmospheric gravity wave excitation through sum nonresonant interaction. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2011, 73, 2429-2436.   | 0.6 | 9         |
| 83 | Spectral energy transfer of atmospheric gravity waves through sum and difference nonlinear interactions. <i>Annales Geophysicae</i> , 2012, 30, 303-315.  | 0.6 | 9         |
| 84 | Facile synthesis of gold-platinum dendritic nanostructures with enhanced electrocatalytic performance for the methanol oxidation reaction. <i>RSC Advances</i> , 2016, 6, 51569-51574.  | 1.7 | 9         |
| 85 | A Statistical Study of Region 3 Scale Field-Aligned Irregularities Occurrence and Vertical Plasma Drift Over Hainan: Solar Activity, Season, and Magnetic Activity Dependences. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028932. | 0.8 | 9         |
| 86 | Comparison of stratospheric evolution during the major sudden stratospheric warming events in 2018 and 2019. <i>Earth and Planetary Physics</i> , 2020, 4, 1-11.  | 0.4 | 9         |
| 87 | Statistics of lower tropospheric inversions over the continental United States. <i>Annales Geophysicae</i> , 2011, 29, 401-410.   | 0.6 | 8         |
| 88 | The Tropopause Inversion Layer Interaction With the Inertial Gravity Wave Activities and Its Latitudinal Variability. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 7512-7522.   | 1.2 | 8         |
| 89 | Signature of a Quasi 30-Day Oscillation at Midlatitude Based on Wind Observations From MST Radar and Meteor Radar. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 11266-11280.  | 1.2 | 8         |
| 90 | The vertical wave number spectra of potential energy density in the stratosphere deduced from the COSMIC satellite observation. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2019, 145, 318-336.  | 1.0 | 8         |

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|-----|--|-----|-----------|
| 91  | Multi-Instrument Observations of the Atmospheric and Ionospheric Response to the 2013 Sudden Stratospheric Warming Over Eastern Asia Region. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2020, 58, 1232-1243.              | 2.7 | 8         |
| 92  | Investigation of dominant traveling 10-day wave components using long-term MERRA-2 database. <i>Earth, Planets and Space</i> , 2021, 73, .   | 0.9 | 8         |
| 93  | Understanding the Excitation of Quasi-6-Day Waves in Both Hemispheres During the September 2019 Antarctic SSW. <i>Journal of Geophysical Research D: Atmospheres</i> , 2022, 127, .  | 1.2 | 8         |
| 94  | Statistical Characteristics of the Low-Latitude E-Region Irregularities Observed by the HCOPAR in South China. <i>Journal of Geophysical Research: Space Physics</i> , 2022, 127, .  | 0.8 | 8         |
| 95  | Characteristics of the quasi-16-day wave in the mesosphere and lower thermosphere region as revealed by meteor radar, Aura satellite, and MERRA2 reanalysis data from 2008 to 2017. <i>Earth and Planetary Physics</i> , 2020, 4, 274-284. | 0.4 | 7         |
| 96  | Investigation on Spectral Characteristics of Gravity Waves in the MLT Using Lidar Observations at Andes. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028918.   | 0.8 | 7         |
| 97  | Strong Quarterdiurnal Tides in the Mesosphere and Lower Thermosphere During the 2019 Arctic Sudden Stratospheric Warming Over Mohe, China. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA029066.               | 0.8 | 7         |
| 98  | First Observational Evidence for the Role of Polar Vortex Strength in Modulating the Activity of Planetary Waves in the MLT Region. <i>Geophysical Research Letters</i> , 2022, 49, .  | 1.5 | 7         |
| 99  | A numerical study on the response of wave number spectra of atmospheric gravity waves to lower atmospheric forcing. <i>Journal of Geophysical Research</i> , 2008, 113, .  | 3.3 | 6         |
| 100 | Radiosonde observations of high-latitude planetary waves in the lower atmosphere. <i>Science China Earth Sciences</i> , 2010, 53, 919-932.   | 2.3 | 6         |
| 101 | Characteristics of mid-latitude planetary waves in the lower atmosphere derived from radiosonde data. <i>Annales Geophysicae</i> , 2012, 30, 1463-1477.  | 0.6 | 6         |
| 102 | A quasi-27-day oscillation activity from the troposphere to the mesosphere and lower thermosphere at low latitudes. <i>Earth, Planets and Space</i> , 2021, 73, .  | 0.9 | 6         |
| 103 | Variations of Kelvin waves around the TTL region during the stratospheric sudden warming events in the Northern Hemisphere winter. <i>Annales Geophysicae</i> , 2016, 34, 331-345.   | 0.6 | 5         |
| 104 | A mechanism to explain the variations of tropopause and tropopause inversion layer in the Arctic region during a sudden stratospheric warming in 2009. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 11,932.          | 1.2 | 5         |
| 105 | Opposite Latitudinal Dependence of the Premidnight and Postmidnight Oscillations in the Electron Density of Midlatitude $F_2$ Layer. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 796-807.                           | 0.8 | 5         |
| 106 | Strong downdrafts preceding rapid tropopause ascent and their potential to identify cross-tropopause stratospheric intrusions. <i>Annales Geophysicae</i> , 2018, 36, 1403-1417.   | 0.6 | 5         |
| 107 | Global characteristics of the westward-propagating quasi-16-day wave with zonal wavenumber 1 and the connection with the 2012/2013 SSW revealed by ERA-Interim. <i>Earth, Planets and Space</i> , 2021, 73, .                              | 0.9 | 5         |
| 108 | Climatology and seasonal variation of the thermospheric tides and their response to solar activities over Arecibo. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2021, 215, 105592.  | 0.6 | 4         |

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|-----|---|-----|-----------|
| 109 | Water vapor anomaly over the tropical western Pacific in El Niño winters from radiosonde and satellite observations and ERA5 reanalysis data. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 13553-13569.   | 1.9 | 4         |
| 110 | A Climatology of Merged Daytime Planetary Boundary Layer Height Over China From Radiosonde Measurements. <i>Journal of Geophysical Research D: Atmospheres</i> , 2022, 127, .   | 1.2 | 4         |
| 111 | High resolution full-spectrum water Raman lidar. <i>Science China Technological Sciences</i> , 2012, 55, 1224-1229.   | 2.0 | 3         |
| 112 | High-resolution Beijing mesosphere–stratosphere–troposphere (MST) radar detection of tropopause structure and variability over Xianghe (39.75°N, 116.96°E), China. <i>Annales Geophysicae</i> , 2019, 37, 631-643.  | 0.6 | 3         |
| 113 | Anomalous changes of temperature and ozone QBOs in 2015~2017 from radiosonde observation and MERRA-2 reanalysis. <i>Earth and Planetary Physics</i> , 2021, 5, 1-10.  | 0.4 | 3         |
| 114 | A Numerical Study of Gravity Waves Propagation Characteristics in the Mesospheric Doppler Duct. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2021JD034680.   | 1.2 | 3         |
| 115 | Wuhan MST radar: technical features and validation of wind observations. <i>Atmospheric Measurement Techniques</i> , 2020, 13, 5697-5713.   | 1.2 | 3         |
| 116 | Modeling Studies of Gravity Wave Dynamics in Highly Structured Environments: Reflection, Trapping, Instability, Momentum Transport, Secondary Gravity Waves, and Induced Flow Responses. <i>Journal of Geophysical Research D: Atmospheres</i> , 2022, 127, . | 1.2 | 3         |
| 117 | A Numerical Study of Saturation Mechanisms of Gravity Waves in The Mesosphere. <i>Chinese Journal of Geophysics</i> , 2001, 44, 452-458.  | 0.2 | 2         |
| 118 | Simulation of the equatorial quasi-biennial oscillation based on the parameterization of continuously spectral gravity waves. <i>Science Bulletin</i> , 2009, 54, 288-295.  | 4.3 | 2         |
| 119 | Wave Mode Analyses of Gravity Waves Propagating in the Mesospheric Thermal Duct. <i>Chinese Journal of Geophysics</i> , 2010, 53, 42-53.  | 0.2 | 2         |
| 120 | A Numerical Simulation on Gravity Waves Generated by Thermal Source and their Influences on Mean Flow. <i>Chinese Journal of Geophysics</i> , 2011, 54, 415-426.  | 0.2 | 2         |
| 121 | A New Method for Measuring Atmospheric Temperature and Aerosol Backscattering Coefficient Using a Pure Rotational Raman Lidar. <i>Chinese Journal of Geophysics</i> , 2012, 55, 617-625.  | 0.2 | 2         |
| 122 | A study on electric field mapping from the $F_2$ region to the $E$ region at Arecibo. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 713-718.   | 0.8 | 2         |
| 123 | A Numerical Study of Gravity Wave Propagation Characteristics in the Stratospheric Thermal Duct. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 11,918.   | 1.2 | 2         |
| 124 | Effect of Temperature and Vertical Drift on Helium Ion Concentration Over Arecibo During Solar Maximum. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 9194-9202.   | 0.8 | 2         |
| 125 | Study of a Quasi-27-Day Wave in the MLT Region During Recurrent Geomagnetic Storms in Autumn 2018. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028865.  | 0.8 | 2         |
| 126 | Effect of Semidiurnal Lunar Tides Modulated by Quasi-27-Day Wave on Equatorial Electrojet During Three Sudden Stratospheric Warming Events. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL095352.  | 1.5 | 2         |



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|-----|--|-----|-----------|
| 127 | Design of the New MST Radar in Chinese Meridian Project. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2021, 14, 2689-2698.                                | 2.3 | 2         |
| 128 | Latitudinal- and height-dependent long-term climatology of propagating quasi-16-day waves in the troposphere and stratosphere. Earth, Planets and Space, 2021, 73, .                           | 0.9 | 2         |
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