# Huixin

## List of Publications by Year in descending order

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Version: 2024-02-01

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|---|---|---|---|
| 112 papers | 3,445 citations | 201575 27 h-index | 161767 54 g-index |
| 130 all docs | 130 docs citations | 130 times ranked | 2303 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | The COSMIC/FORMOSAT-3 Mission: Early Results. Bulletin of the American Meteorological Society, 2008, 89, 313-334. | 1.7 | 783 |
| 2 | Global distribution of the thermospheric total mass density derived from CHAMP. Journal of Geophysical Research, 2005, 110, . | 3.3 | 176 |
| 3 | Strong disturbance of the upper thermospheric density due to magnetic storms: CHAMP observations. Journal of Geophysical Research, 2005, 110, . | 3.3 | 130 |
| 4 | Zonal winds in the equatorial upper thermosphere: Decomposing the solar flux, geomagnetic activity, and seasonal dependencies. Journal of Geophysical Research, 2006, 111, . | 3.3 | 122 |
| 5 | Waveâ€4 pattern of the equatorial mass density anomaly: A thermospheric signature of tropical deep convection. Geophysical Research Letters, 2009, 36, . | 1.5 | 90 |
| 6 | Climatology of the equatorial thermospheric mass density anomaly. Journal of Geophysical Research, 2007, 112, n/a-n/a. | 3.3 | 88 |
| 7 | Solar activity dependence of the electron density in the equatorial anomaly regions observed by CHAMP. Journal of Geophysical Research, 2007, 112, . | 3.3 | 85 |
| 8 | IMF dependence of high-latitude thermospheric wind pattern derived from CHAMP cross-track measurements. Annales Geophysicae, 2008, 26, 1581-1595. | 0.6 | 80 |
| 9 | Average thermospheric wind patterns over the polar regions, as observed by CHAMP. Annales Geophysicae, 2007, 25, 1093-1101. | 0.6 | 75 |
| 10 | Seasonal variation of the longitudinal structure of the equatorial ionosphere: Does it reflect tidal influences from below?. Journal of Geophysical Research, 2008, 113, . | 3.3 | 70 |
| 11 | Strong thermospheric cooling during the 2009 major stratosphere warming. Geophysical Research Letters, 2011, 38, n/a-n/a. | 1.5 | 61 |
| 12 | First tomographic observations of the Midlatitude Summer Nighttime Anomaly over Japan. Journal of Geophysical Research, 2009, 114, . | 3.3 | 60 |
| 13 | Equatorial electrodynamics and neutral background in the Asian sector during the 2009 stratospheric sudden warming. Journal of Geophysical Research, 2011, 116, n/a-n/a. | 3.3 | 60 |
| 14 | Phase reversal of the diurnal cycle in the midlatitude ionosphere. Journal of Geophysical Research, 2010, 115, . | 3.3 | 56 |
| 15 | Upper atmosphere response to stratosphere sudden warming: Local time and height dependence simulated by GAIA model. Geophysical Research Letters, 2013, 40, 635-640. | 1.5 | 56 |
| 16 | Contrasting behavior of the thermosphere and ionosphere in response to the 28 October 2003 solar flare. Journal of Geophysical Research, 2007, 112, . | 3.3 | 55 |
| 17 | Thermal and dynamical changes of the zonal mean state of the thermosphere during the 2009 SSW: GAIA simulations. Journal of Geophysical Research: Space Physics, 2014, 119, 6784-6791. | 0.8 | 52 |
| 18 | A solar terminator wave in thermospheric wind and density simultaneously observed by CHAMP. Geophysical Research Letters, 2009, 36, . | 1.5 | 49 |

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|---|---|---|---|
| 19 | New aspects of thermospheric and ionospheric storms revealed by CHAMP. Journal of Geophysical Research, 2011, 116, n/a-n/a. | 3.3 | 49 |
| 20 | SpaceXâ€”Sailing Close to the Space Weather?. Space Weather, 2022, 20, . | 1.3 | 43 |
| 21 | Fast thermospheric wind jet at the Earth's dip equator. Geophysical Research Letters, 2009, 36, . | 1.5 | 38 |
| 22 | Mediumâ€scale gravity wave activity in the bottomside F region in tropical regions. Geophysical Research Letters, 2017, 44, 7099-7105. | 1.5 | 36 |
| 23 | Model study on the formation of the equatorial mass density anomaly in the thermosphere. Journal of Geophysical Research, 2011, 116, . | 3.3 | 32 |
| 24 | Mid-latitude Summer Nighttime Anomaly (MSNA) â€“ observations and model simulations. Annales Geophysicae, 2011, 29, 157-165. | 0.6 | 32 |
| 25 | Empirical model of the thermospheric mass density based on CHAMP satellite observations. Journal of Geophysical Research: Space Physics, 2013, 118, 843-848. | 0.8 | 32 |
| 26 | Relationship between the equatorial electrojet and global Sq currents at the dip equator region. Earth, Planets and Space, 2014, 66, . | 0.9 | 31 |
| 27 | Structure and origins of the Weddell Sea Anomaly from tidal and planetary wave signatures in FORMOSATâ€3/COSMIC observations and GAIA GCM simulations. Journal of Geophysical Research: Space Physics, 2015, 120, 1325-1340. | 0.8 | 29 |
| 28 | Ionospheric shock waves triggered by rockets. Annales Geophysicae, 2014, 32, 1145-1152. | 0.6 | 28 |
| 29 | Thermospheric wind observed by GOCE: Wind jets and seasonal variations. Journal of Geophysical Research: Space Physics, 2016, 121, 6901-6913. | 0.8 | 28 |
| 30 | Modifications of the ionosphere prior to large earthquakes: report from the Ionosphere Precursor Study Group. Geoscience Letters, 2016, 3, . | 1.3 | 28 |
| 31 | Thermospheric Density Perturbations Produced by Traveling Atmospheric Disturbances During August 2005 Storm. Journal of Geophysical Research: Space Physics, 2022, 127, . | 0.8 | 28 |
| 32 | Evaluation of the IRI model using CHAMP observations in polar and equatorial regions. Advances in Space Research, 2007, 39, 904-909. | 1.2 | 27 |
| 33 | In-Situ CHAMP Observation of Ionosphere-Thermosphere Coupling. Space Science Reviews, 2012, 168, 237-260. | 3.7 | 27 |
| 34 | Numerical simulation of the equatorial wind jet in the thermosphere. Journal of Geophysical Research, 2012, 117, . | 3.3 | 26 |
| 35 | Solar flux variation of the electron temperature morning overshoot in the equatorialFregion. Journal of Geophysical Research, 2011, 116, n/a-n/a. | 3.3 | 25 |
| 36 | Interhemispheric differences of mesosphereâ€“lower thermosphere winds and tides investigated from three whole-atmosphere models and meteor radar observations. Atmospheric Chemistry and Physics, 2021, 21, 13855-13902. | 1.9 | 24 |

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|---|---|---|---|
| 37 | Diurnal, seasonal, and geomagnetic variations of large field-aligned ion upflows in the high-latitude ionosphericFregion. Journal of Geophysical Research, 2001, 106, 24651-24661. | 3.3 | 23 |
| 38 | Sq current system during stratospheric sudden warming events in 2006 and 2009. Journal of Geophysical Research, 2012, 117, . | 3.3 | 21 |
| 39 | MLT and seasonal dependence of auroral electrojets: IMAGE magnetometer network observations. Journal of Geophysical Research: Space Physics, 2014, 119, 3179-3188. | 0.8 | 21 |
| 40 | Mesospheric temperatures estimated from the meteor radar observations at Mohe, China. Journal of Geophysical Research: Space Physics, 2017, 122, 2249-2259. | 0.8 | 21 |
| 41 | ENSO effects on MLT diurnal tides: A 21 year reanalysis dataâ€driven GAIA model simulation. Journal of Geophysical Research: Space Physics, 2017, 122, 5539-5549. | 0.8 | 21 |
| 42 | El NiÃ±oâ€“Southern Oscillation effect on quasi-biennial oscillations of temperature diurnal tides in the mesosphere and lower thermosphere. Earth, Planets and Space, 2018, 70, . | 0.9 | 19 |
| 43 | Ionospheric response to 2009 sudden stratospheric warming in the Northern Hemisphere. Journal of Geophysical Research: Space Physics, 2014, 119, 10,260. | 0.8 | 18 |
| 44 | AlfvÃ©n waves as a solar-interplanetary driver of the thermospheric disturbances. Scientific Reports, 2016, 6, 18895. | 1.6 | 18 |
| 45 | Velocity shear-related ion upflow in the low-altitude ionosphere. Annales Geophysicae, 2004, 22, 1149-1153. | 0.6 | 17 |
| 46 | Wave-4 structure of the neutral density in the thermosphere and its relation to atmospheric tides. Journal of Atmospheric and Solar-Terrestrial Physics, 2012, 90-91, 45-51. | 0.6 | 17 |
| 47 | Constructive interference of largeâ€scale gravity waves excited by interplanetary shock on 29 October 2003: CHAMP observation. Journal of Geophysical Research: Space Physics, 2014, 119, 6846-6851. | 0.8 | 17 |
| 48 | Precursory enhancement of EIA in the morning sector: Contribution from mid-latitude large earthquakes in the north-east Asian region. Advances in Space Research, 2016, 57, 268-280. | 1.2 | 17 |
| 49 | First Globalâ€Scale Synoptic Imaging of Solar Eclipse Effects in the Thermosphere. Journal of Geophysical Research: Space Physics, 2020, 125, e2020JA027789. | 0.8 | 17 |
| 50 | Empirical model of equatorial electrojet based on ground-based magnetometer data during solar minimum in fall. Earth, Planets and Space, 2015, 67, . | 0.9 | 16 |
| 51 | Variations of the meteor echo heights at Beijing and Mohe, China. Journal of Geophysical Research: Space Physics, 2017, 122, 1117-1127. | 0.8 | 16 |
| 52 | Do minor sudden stratospheric warmings in the Southern Hemisphere (SH) impact coupling between stratosphere and mesosphereâ€“lower thermosphere (MLT) like major warmings?. Earth, Planets and Space, 2017, 69, . | 0.9 | 15 |
| 53 | Nighttimeâ€like quasi periodic echoes induced by a partial solar eclipse. Geophysical Research Letters, 2010, 37, . | 1.5 | 14 |
| 54 | Storm-time atmospheric density modeling using neural networks and its application in orbit propagation. Advances in Space Research, 2014, 53, 558-567. | 1.2 | 14 |

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|---|---|---|---|
| 55 | The nonâ€“storm time corrugated upper thermosphere: What is beyond MSIS?. Space Weather, 2017, 15, 746-760. | 1.3 | 14 |
| 56 | Geomagnetic Activity Effects on CO<sub>2</sub>â€Driven Trend in the Thermosphere and Ionosphere: Ideal Model Experiments With GAIA. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA028607. | 0.8 | 14 |
| 57 | Midnight latitudeâ€altitude distribution of 630 nm airglow in the Asian sector measured with FORMOSATâ€2/ISUAL. Journal of Geophysical Research, 2010, 115, . | 3.3 | 13 |
| 58 | On the formation of a fast thermospheric zonal wind at the magnetic dip equator. Geophysical Research Letters, 2011, 38, n/a-n/a. | 1.5 | 13 |
| 59 | Observations of a largeâ€scale gravity wave propagating over an extremely large horizontal distance in the thermosphere. Geophysical Research Letters, 2015, 42, 6560-6565. | 1.5 | 13 |
| 60 | Thermospheric inter-annual variability and its potential connection to ENSO and stratospheric QBO. Earth, Planets and Space, 2016, 68, . | 0.9 | 13 |
| 61 | Seeding of Equatorial Plasma Bubbles by Vertical Neutral Wind. Geophysical Research Letters, 2019, 46, 7088-7095. | 1.5 | 13 |
| 62 | Circulation and Tides in a Cooler Upper Atmosphere: Dynamical Effects of CO<sub>2</sub> Doubling. Geophysical Research Letters, 2020, 47, e2020GL087413. | 1.5 | 13 |
| 63 | Sunspot observations by Hisako Koyama: 1945â€“1996. Monthly Notices of the Royal Astronomical Society, 2020, 492, 4513-4527. | 1.6 | 13 |
| 64 | Gravity Wave Weakening During the 2019 Antarctic Stratospheric Sudden Warming. Geophysical Research Letters, 2021, 48, e2021GL092537. | 1.5 | 12 |
| 65 | First observational evidence for opposite zonal electric fields in equatorial E and F region altitudes during a geomagnetic storm period. Journal of Geophysical Research, 2012, 117, . | 3.3 | 11 |
| 66 | Interannual Variability of the Daytime Equatorial Ionospheric Electric Field. Journal of Geophysical Research: Space Physics, 2018, 123, 4241-4256. | 0.8 | 11 |
| 67 | Longâ€Term Trend of Topside Ionospheric Electron Density Derived From DMSP Data During 1995â€“2017. Journal of Geophysical Research: Space Physics, 2019, 124, 10708-10727. | 0.8 | 11 |
| 68 | Interhemispheric Transport of the Ionospheric F Region Plasma During the 2009 Sudden Stratosphere Warming. Geophysical Research Letters, 2020, 47, e2020GL087078. | 1.5 | 11 |
| 69 | Combined ESR and EISCAT observations of the dayside polar cap and auroral oval during the May 15, 1997 storm. Annales Geophysicae, 2000, 18, 1067-1072. | 0.6 | 10 |
| 70 | Positive storm effects in the dayside polar ionospheric F-region observed by EISCAT and ESR during the magnetic storm of 15 May 1997. Annales Geophysicae, 2002, 20, 1377-1384. | 0.6 | 10 |
| 71 | Plasma Blobs Concurrently Observed With Bubbles in the Asianâ€Oceanian Sector During Solar Maximum. Journal of Geophysical Research: Space Physics, 2019, 124, 7062-7071. | 0.8 | 10 |
| 72 | Coupling of electrons and inertial Alfven waves in the topside ionosphere. Journal of Geophysical Research: Space Physics, 2013, 118, 2903-2910. | 0.8 | 9 |

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|---|---|---|---|
| 73 | Quasiâ€biennial oscillation of the ionospheric wind dynamo. Journal of Geophysical Research: Space Physics, 2017, 122, 3553-3569. | 0.8 | 9 |
| 74 | Equinoctial asymmetry in the zonal distribution of scintillation as observed by GPS receivers in Indonesia. Journal of Geophysical Research: Space Physics, 2017, 122, 8947-8958. | 0.8 | 9 |
| 75 | Precursor effect of March 11, 2011 off the coast of Tohoku earthquake on high and low latitude ionospheres and its possible disturbing mechanism. Advances in Space Research, 2019, 63, 2623-2637. | 1.2 | 9 |
| 76 | The Characteristics of Summer Descending Sporadic E Layer Observed With the Ionosondes in the China Region. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA028729. | 0.8 | 9 |
| 77 | Ms. Hisako Koyama: From Amateur Astronomer to Longâ€Term Solar Observer. Space Weather, 2017, 15, 1215-1221. | 1.3 | 8 |
| 78 | Generation of Electron Acoustic Waves in the Topside Ionosphere From Coupling With Kinetic Alfven Waves: A New Electron Energization Mechanism. Geophysical Research Letters, 2018, 45, 5299-5304. | 1.5 | 8 |
| 79 | El NiÃ±oâ€“Southern Oscillation effect on ionospheric tidal/SPW amplitude in 2007â€“2015 FORMOSAT-3/COSMIC observations. Earth, Planets and Space, 2019, 71, . | 0.9 | 8 |
| 80 | Global sounding of F region irregularities by COSMIC during a geomagnetic storm. Annales Geophysicae, 2019, 37, 235-242. | 0.6 | 8 |
| 81 | Vertical Structure of Terdiurnal Tides in the Antarctic MLT Region: 15â€Year Observation Over Syowa (69Â°S, 39Â°E). Geophysical Research Letters, 2019, 46, 2364-2371. | 1.5 | 8 |
| 82 | Weakening of the mid-latitude summer nighttime anomaly during geomagnetic storms. Earth, Planets and Space, 2011, 63, 371-375. | 0.9 | 7 |
| 83 | Annual variations in westward auroral electrojet and substorm occurrence rate during solar cycle 23. Journal of Geophysical Research: Space Physics, 2014, 119, 2061-2068. | 0.8 | 7 |
| 84 | Prolonged multiple excitation of largeâ€scale Traveling Atmospheric Disturbances (TADs) by successive and interacting coronal mass ejections. Journal of Geophysical Research: Space Physics, 2016, 121, 2662-2668. | 0.8 | 7 |
| 85 | Special issue â€œAkatsuki at Venus: The First Year of Scientific Operationâ€. Earth, Planets and Space, 2018, 70, . | 0.9 | 7 |
| 86 | Ionospheric F Layer Scintillation Weakening as Observed by COSMIC/FORMOSATâ€3 During the Major Sudden Stratospheric Warming in January 2013. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027721. | 0.8 | 6 |
| 87 | Climatology analysis of the daytime topside ionospheric diffusive O + flux based on incoherent scatter radar observations at Millstone Hill. Journal of Geophysical Research: Space Physics, 2021, 126, e2021JA029222. | 0.8 | 6 |
| 88 | The Possible Role of Turbopause on Sporadicâ€E Layer Formation at Middle and Low Latitudes. Space Weather, 2021, 19, e2021SW002883. | 1.3 | 6 |
| 89 | Ionospheric Topside Diffusive Flux and the Formation of Summer Nighttime Ionospheric Electron Density Enhancement Over Millstone Hill. Geophysical Research Letters, 2022, 49, . | 1.5 | 6 |
| 90 | Observations of Lowâ€Latitude Traveling Ionospheric Disturbances by a 630.0â€nm Airglow Imager and the CHAMP Satellite Over Indonesia. Journal of Geophysical Research: Space Physics, 2019, 124, 2198-2212. | 0.8 | 5 |

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|---|---|---|---|
| 91 | New Aspects of the Coupling Between Thermosphere and Ionosphere, with Special regards to CHAMP Mission Results. , 2011, , 303-316. | | 5 |
| 92 | Potential for the measurement of mesosphere and lower thermosphere (MLT) wind, temperature, density and geomagnetic field with Superconducting Submillimeter-Wave Limb-Emission Sounder 2 (SMILES-2). Atmospheric Measurement Techniques, 2020, 13, 219-237. | 1.2 | 4 |
| 93 | DW1 Tidal Enhancements in the Equatorial MLT During 2015 El NiÃ±o: The Relative Role of Tidal Heating and Propagation. Journal of Geophysical Research: Space Physics, 2021, 126, e2021JA029342. | 0.8 | 4 |
| 94 | Contribution of the lower atmosphere to the day-to-day variation of thermospheric density. Advances in Space Research, 2023, 72, 5460-5475. | 1.2 | 4 |
| 95 | Comparison of FORMOSATâ€3/COSMIC radio occultation measurements with radio tomography. Radio Science, 2011, 46, . | 0.8 | 3 |
| 96 | Brief study of equatorial electrojet and global Sq currents at Southeast Asia region. , 2013, , . | | 3 |
| 97 | Capacity Building: A Tool for Advancing Space Weather Science. Space Weather, 2014, 12, 571-576. | 1.3 | 2 |
| 98 | Peak time of equatorial electrojet from different longitude sectors during fall solar minimum. Journal of Physics: Conference Series, 2017, 852, 012015. | 0.3 | 2 |
| 99 | Thermospheric Density Cells at High Latitudes as Observed by GOCE Satellite: Preliminary Results. Geophysical Research Letters, 2019, 46, 11615-11621. | 1.5 | 2 |
| 100 | Machineâ€Learning Research in the Space Weather Journal: Prospects, Scope, and Limitations. Space Weather, 2021, 19, . | 1.3 | 2 |
| 101 | Longitudinal and solar activity dependence of equatorial electrojet at Southeast Asian sector. , 2015, , . | | 1 |
| 102 | The Enhancement of the Thermospheric Density During the Sept. 25â€“26, 2001 Magnetic Storm. , 2005, , 366-370. | | 0 |
| 103 | Reply to comment by S. Tulasi Ram et al. on â€œWestward electric field penetration to the dayside equatorial ionosphere during the main phase of the geomagnetic storm on 22 July 2009â€• Journal of Geophysical Research, 2011, 116, n/a-n/a. | 3.3 | 0 |
| 104 | Quasi periodic echoes induced by a partial solar eclipse. , 2011, , . | | 0 |
| 105 | Possible correlation between exogenous parameters and seismicity. , 2015, , . | | 0 |
| 106 | Special issue â€œRecent Advances in MST and EISCAT/Ionospheric Studies â€“ Special Issue of the Joint MST15 and EISCAT18 Meetings, May 2017â€• Earth, Planets and Space, 2019, 71, . | 0.9 | 0 |
| 107 | Correction to: El NiÃ±oâ€“Southern Oscillation effect on ionospheric tidal/SPW amplitude in 2007â€“2015 FORMOSAT- 3/COSMIC observations. Earth, Planets and Space, 2019, 71, . | 0.9 | 0 |
| 108 | Thank You to Our 2018 Peer Reviewers. Space Weather, 2019, 17, 372-374. | 1.3 | 0 |

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| 109 | Thank You to Our 2019 Reviewers. Space Weather, 2020, 18, e2020SW002481. | 1.3 | 0 |
| 110 | Thank You to Our 2020 Reviewers. Space Weather, 2021, 19, e2021SW002756. | 1.3 | 0 |
| 111 | Thank You to Our 2021 Peer Reviewers. Space Weather, 2022, 20, . | 1.3 | 0 |
| 112 | ROLES OF EVENING EASTWARD NEUTRAL WIND AND EQUATORIAL ELECTROJET ON PRE-REVERSAL ENHANCEMENT INFERRED FROM GOCE SATELLITE AND GROUND-BASED OBSERVATIONS. , 2022, , . | | 0 |