Huixin

List of Publications by Year in descending order

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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	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
2	Thermospheric Density Perturbations Produced by Traveling Atmospheric Disturbances During August 2005 Storm. Journal of Geophysical Research: Space Physics, 2022, 127, .	0.8	28
3	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
4	SpaceXâ€"Sailing Close to the Space Weather?. Space Weather, 2022, 20, .	1.3	43
5	Thank You to Our 2021 Peer Reviewers. Space Weather, 2022, 20, .	1.3	0
6	ROLES OF EVENING EASTWARD NEUTRAL WIND AND EQUATORIAL ELECTROJET ON PRE-REVERSAL ENHANCEMENT INFERRED FROM GOCE SATELLITE AND GROUND-BASED OBSERVATIONS. , 2022, , .		0
7	Geomagnetic Activity Effects on CO₂â€Driven Trend in the Thermosphere and Ionosphere: Ideal Model Experiments With GAIA. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA028607.	0.8	14
8	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
9	Thank You to Our 2020 Reviewers. Space Weather, 2021, 19, e2021SW002756.	1.3	0
10	Gravity Wave Weakening During the 2019 Antarctic Stratospheric Sudden Warming. Geophysical Research Letters, 2021, 48, e2021GL092537.	1.5	12
11	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
12	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
13	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
14	The Possible Role of Turbopause on Sporadicâ€E Layer Formation at Middle and Low Latitudes. Space Weather, 2021, 19, e2021SW002883.	1.3	6
15	Machineâ€Learning Research in the Space Weather Journal: Prospects, Scope, and Limitations. Space Weather, 2021, 19, .	1.3	2
16	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
17	Thank You to Our 2019 Reviewers. Space Weather, 2020, 18, e2020SW002481.	1.3	0
18	First Globalâ€Scale Synoptic Imaging of Solar Eclipse Effects in the Thermosphere. Journal of Geophysical Research: Space Physics, 2020, 125, e2020JA027789.	0.8	17

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19	Circulation and Tides in a Cooler Upper Atmosphere: Dynamical Effects of CO₂ Doubling. Geophysical Research Letters, 2020, 47, e2020GL087413.	1.5	13
20	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
21	Interhemispheric Transport of the Ionospheric F Region Plasma During the 2009 Sudden Stratosphere Warming. Geophysical Research Letters, 2020, 47, e2020GL087078.	1.5	11
22	Sunspot observations by Hisako Koyama: 1945â€“1996. Monthly Notices of the Royal Astronomical Society, 2020, 492, 4513-4527.	1.6	13
23	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
24	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
25	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
26	Thermospheric Density Cells at High Latitudes as Observed by GOCE Satellite: Preliminary Results. Geophysical Research Letters, 2019, 46, 11615-11621.	1.5	2
27	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
28	Seeding of Equatorial Plasma Bubbles by Vertical Neutral Wind. Geophysical Research Letters, 2019, 46, 7088-7095.	1.5	13
29	Global sounding of F region irregularities by COSMIC during a geomagnetic storm. Annales Geophysicae, 2019, 37, 235-242.	0.6	8
30	Thank You to Our 2018 Peer Reviewers. Space Weather, 2019, 17, 372-374.	1.3	0
31	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
32	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
33	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
34	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
35	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
36	Special issue â€œAkatsuki at Venus: The First Year of Scientific Operationâ€• Earth, Planets and Space, 2018, 70, .	0.9	7

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37	Interannual Variability of the Daytime Equatorial Ionospheric Electric Field. Journal of Geophysical Research: Space Physics, 2018, 123, 4241-4256.	0.8	11
38	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
39	Mesospheric temperatures estimated from the meteor radar observations at Mohe, China. Journal of Geophysical Research: Space Physics, 2017, 122, 2249-2259.	0.8	21
40	Quasiâ€biennial oscillation of the ionospheric wind dynamo. Journal of Geophysical Research: Space Physics, 2017, 122, 3553-3569.	0.8	9
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	The nonâ€“storm time corrugated upper thermosphere: What is beyond MSIS?. Space Weather, 2017, 15, 746-760.	1.3	14
43	Variations of the meteor echo heights at Beijing and Mohe, China. Journal of Geophysical Research: Space Physics, 2017, 122, 1117-1127.	0.8	16
44	Ms. Hisako Koyama: From Amateur Astronomer to Longâ€Term Solar Observer. Space Weather, 2017, 15, 1215-1221.	1.3	8
45	Mediumâ€scale gravity wave activity in the bottomside F region in tropical regions. Geophysical Research Letters, 2017, 44, 7099-7105.	1.5	36
46	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
47	Peak time of equatorial electrojet from different longitude sectors during fall solar minimum. Journal of Physics: Conference Series, 2017, 852, 012015.	0.3	2
48	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
49	Thermospheric wind observed by GOCE: Wind jets and seasonal variations. Journal of Geophysical Research: Space Physics, 2016, 121, 6901-6913.	0.8	28
50	AlfvÃ©n waves as a solar-interplanetary driver of the thermospheric disturbances. Scientific Reports, 2016, 6, 18895.	1.6	18
51	Thermospheric inter-annual variability and its potential connection to ENSO and stratospheric QBO. Earth, Planets and Space, 2016, 68, .	0.9	13
52	Modifications of the ionosphere prior to large earthquakes: report from the Ionosphere Precursor Study Group. Geoscience Letters, 2016, 3, .	1.3	28
53	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
54	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

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55	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
56	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
57	Possible correlation between exogenous parameters and seismicity. , 2015, , .		0
58	Longitudinal and solar activity dependence of equatorial electrojet at Southeast Asian sector. , 2015, , .		1
59	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
60	Ionospheric shock waves triggered by rockets. Annales Geophysicae, 2014, 32, 1145-1152.	0.6	28
61	Ionospheric response to 2009 sudden stratospheric warming in the Northern Hemisphere. Journal of Geophysical Research: Space Physics, 2014, 119, 10,260.	0.8	18
62	Relationship between the equatorial electrojet and global Sq currents at the dip equator region. Earth, Planets and Space, 2014, 66, .	0.9	31
63	MLT and seasonal dependence of auroral electrojets: IMAGE magnetometer network observations. Journal of Geophysical Research: Space Physics, 2014, 119, 3179-3188.	0.8	21
64	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
65	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
66	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
67	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
68	Capacity Building: A Tool for Advancing Space Weather Science. Space Weather, 2014, 12, 571-576.	1.3	2
69	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
70	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
71	Coupling of electrons and inertial Alfven waves in the topside ionosphere. Journal of Geophysical Research: Space Physics, 2013, 118, 2903-2910.	0.8	9
72	Brief study of equatorial electrojet and global Sq currents at Southeast Asia region. , 2013, , .		3

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73	Sq current system during stratospheric sudden warming events in 2006 and 2009. Journal of Geophysical Research, 2012, 117, .	3.3	21
74	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
75	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
76	Numerical simulation of the equatorial wind jet in the thermosphere. Journal of Geophysical Research, 2012, 117, .	3.3	26
77	In-Situ CHAMP Observation of Ionosphere-Thermosphere Coupling. Space Science Reviews, 2012, 168, 237-260.	3.7	27
78	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
79	Model study on the formation of the equatorial mass density anomaly in the thermosphere. Journal of Geophysical Research, 2011, 116, .	3.3	32
80	New aspects of thermospheric and ionospheric storms revealed by CHAMP. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	49
81	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
82	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
83	Strong thermospheric cooling during the 2009 major stratosphere warming. Geophysical Research Letters, 2011, 38, n/a-n/a.	1.5	61
84	Comparison of FORMOSATâ€3/COSMIC radio occultation measurements with radio tomography. Radio Science, 2011, 46, .	0.8	3
85	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
86	Quasi periodic echoes induced by a partial solar eclipse. , 2011, , .		0
87	Weakening of the mid-latitude summer nighttime anomaly during geomagnetic storms. Earth, Planets and Space, 2011, 63, 371-375.	0.9	7
88	Mid-latitude Summer Nighttime Anomaly (MSNA) â€“ observations and model simulations. Annales Geophysicae, 2011, 29, 157-165.	0.6	32
89	New Aspects of the Coupling Between Thermosphere and Ionosphere, with Special regards to CHAMP Mission Results. , 2011, , 303-316.		5
90	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

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91	Nighttimeâ€like quasi periodic echoes induced by a partial solar eclipse. Geophysical Research Letters, 2010, 37, .	1.5	14
92	Phase reversal of the diurnal cycle in the midlatitude ionosphere. Journal of Geophysical Research, 2010, 115, .	3.3	56
93	Fast thermospheric wind jet at the Earth's dip equator. Geophysical Research Letters, 2009, 36, .	1.5	38
94	A solar terminator wave in thermospheric wind and density simultaneously observed by CHAMP. Geophysical Research Letters, 2009, 36, .	1.5	49
95	Waveâ€4 pattern of the equatorial mass density anomaly: A thermospheric signature of tropical deep convection. Geophysical Research Letters, 2009, 36, .	1.5	90
96	First tomographic observations of the Midlatitude Summer Nighttime Anomaly over Japan. Journal of Geophysical Research, 2009, 114, .	3.3	60
97	The COSMIC/FORMOSAT-3 Mission: Early Results. Bulletin of the American Meteorological Society, 2008, 89, 313-334.	1.7	783
98	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
99	IMF dependence of high-latitude thermospheric wind pattern derived from CHAMP cross-track measurements. Annales Geophysicae, 2008, 26, 1581-1595.	0.6	80
100	Climatology of the equatorial thermospheric mass density anomaly. Journal of Geophysical Research, 2007, 112, n/a-n/a.	3.3	88
101	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
102	Solar activity dependence of the electron density in the equatorial anomaly regions observed by CHAMP. Journal of Geophysical Research, 2007, 112, .	3.3	85
103	Average thermospheric wind patterns over the polar regions, as observed by CHAMP. Annales Geophysicae, 2007, 25, 1093-1101.	0.6	75
104	Evaluation of the IRI model using CHAMP observations in polar and equatorial regions. Advances in Space Research, 2007, 39, 904-909.	1.2	27
105	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
106	The Enhancement of the Thermospheric Density During the Sept. 25â€“26, 2001 Magnetic Storm. , 2005, , 366-370.		0
107	Global distribution of the thermospheric total mass density derived from CHAMP. Journal of Geophysical Research, 2005, 110, .	3.3	176
108	Strong disturbance of the upper thermospheric density due to magnetic storms: CHAMP observations. Journal of Geophysical Research, 2005, 110, .	3.3	130

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109	Velocity shear-related ion upflow in the low-altitude ionosphere. Annales Geophysicae, 2004, 22, 1149-1153.	0.6	17
110	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
111	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
112	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