

Zhang Hui

List of Publications by Year in descending order

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Version: 2024-02-01

48
papers

795
citations

471477

17
h-index

552766

26
g-index

52
all docs

52
docs citations

52
times ranked

1001
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | THEMIS observations of ULF wave excitation in the nightside plasma sheet during sudden impulse events. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 284-298. | 2.4 | 59 |
| 2 | Three-dimensional lunar wake reconstructed from ARTEMIS data. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 5220-5243. | 2.4 | 54 |
| 3 | Initial results of high-latitude magnetopause and low-latitude flank flux transfer events from 3 years of Cluster observations. <i>Journal of Geophysical Research</i> , 2005, 110, . | 3.3 | 52 |
| 4 | Development and validation of inversion technique for substorm current wedge using ground magnetic field data. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 1909-1924. | 2.4 | 43 |
| 5 | Modeling a force-free flux transfer event probed by multiple Time History of Events and Macroscale Interactions during Substorms (THEMIS) spacecraft. <i>Journal of Geophysical Research</i> , 2008, 113, . | 3.3 | 34 |
| 6 | Double Star TC-1 observations of component reconnection at the dayside magnetopause: a preliminary study. <i>Annales Geophysicae</i> , 2005, 23, 2889-2895. | 1.6 | 32 |
| 7 | Evidence that crater flux transfer events are initial stages of typical flux transfer events. <i>Journal of Geophysical Research</i> , 2010, 115, . | 3.3 | 31 |
| 8 | TC-1 observations of flux pileup and dipolarization-associated expansion in the near-Earth magnetotail during substorms. <i>Geophysical Research Letters</i> , 2007, 34, . | 4.0 | 30 |
| 9 | Modeling study of nighttime enhancements in F_2 region electron density at low latitudes. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 6648-6656. | 2.4 | 25 |
| 10 | F_2 enhancement during ionospheric F_2 region nighttime: A statistical analysis based on COSMIC observations during the 2007-2009 solar minimum. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 10083-10095. | 2.4 | 24 |
| 11 | Generation and properties of in vivo flux transfer events. <i>Journal of Geophysical Research</i> , 2012, 117, . | 3.3 | 22 |
| 12 | The global distribution of the dusk-to-nighttime enhancement of summer F_2 at solar minimum. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 7914-7922. | 2.4 | 22 |
| 13 | The latitudinal structure of nighttime ionospheric TEC and its empirical orthogonal functions model over North American sector. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 963-977. | 2.4 | 22 |
| 14 | Multiple Technique Observations of the Ionospheric Responses to the 21 June 2020 Solar Eclipse. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2020JA028450. | 2.4 | 19 |
| 15 | MAVEN Observations of Periodic Low-altitude Plasma Clouds at Mars. <i>Astrophysical Journal Letters</i> , 2021, 922, L33. | 8.3 | 19 |
| 16 | Outward expansion of the lunar wake: ARTEMIS observations. <i>Geophysical Research Letters</i> , 2012, 39, . | 4.0 | 18 |
| 17 | Dipole tilt angle effect on magnetic reconnection locations on the magnetopause. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 5344-5354. | 2.4 | 18 |
| 18 | Earth Wind as a Possible Exogenous Source of Lunar Surface Hydration. <i>Astrophysical Journal Letters</i> , 2021, 907, L32. | 8.3 | 18 |

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|----|--|-----|-----------|
| 19 | Alfvén wings in the lunar wake: The role of pressure gradients. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 10,698. | 2.4 | 17 |
| 20 | Kinetic-scale Flux Rope in the Magnetosheath Boundary Layer. <i>Astrophysical Journal</i> , 2020, 897, 137. | 4.5 | 16 |
| 21 | MESSENGER Observations of Rapid and Impulsive Magnetic Reconnection in Mercury's Magnetotail. <i>Astrophysical Journal Letters</i> , 2018, 860, L20. | 8.3 | 15 |
| 22 | Formation of Macroscale Flux Transfer Events at Mercury. <i>Astrophysical Journal Letters</i> , 2020, 893, L18. | 8.3 | 15 |
| 23 | Effects of the 21 June 2020 Solar Eclipse on Conjugate Hemispheres: A Modeling Study. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2020JA028344. | 2.4 | 14 |
| 24 | New Features of the Enhancements in Electron Density at Low Latitudes. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA027539. | 2.4 | 12 |
| 25 | Flow vortices associated with flux transfer events moving along the magnetopause: Observations and an MHD simulation. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a. | 3.3 | 11 |
| 26 | Implantation of Earth's Atmospheric Ions Into the Nearside and Farside Lunar Soil: Implications to Geodynamo Evolution. <i>Geophysical Research Letters</i> , 2020, 47, e2019GL086208. | 4.0 | 11 |
| 27 | Interhemispheric Transport of the Ionospheric F_2 Region Plasma During the 2009 Sudden Stratosphere Warming. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL087078. | 4.0 | 11 |
| 28 | Statistics on the Magnetosheath Properties Related to Magnetopause Magnetic Reconnection. <i>Astrophysical Journal</i> , 2019, 880, 122. | 4.5 | 10 |
| 29 | Propagation properties of foreshock cavitons: Cluster observations. <i>Science China Technological Sciences</i> , 2020, 63, 173-182. | 4.0 | 10 |
| 30 | Equatorial North-South Difference of Noontime Electron Density B_{out} in the F_2 Layer. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2020JA028124. | 2.4 | 10 |
| 31 | A Case Study of the Enhancements in Ionospheric Electron Density and Its Longitudinal Gradient at Chinese Low Latitudes. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA027751. | 2.4 | 10 |
| 32 | Effects of Orbital Eccentricity and IMF Cone Angle on the Dimensions of Mercury's Magnetosphere. <i>Astrophysical Journal</i> , 2020, 892, 2. | 4.5 | 10 |
| 33 | Latitudinal Dependence of Daytime Electron Density B_{out} in the Ionospheric F_2 Layer. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, . | 2.4 | 9 |
| 34 | Trapped and Accelerated Electrons Within a Magnetic Mirror Behind a Flux Rope on the Magnetopause. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 3993-4008. | 2.4 | 8 |
| 35 | Energetic Neutral Atom Distribution on the Lunar Surface and Its Relationship with Solar Wind Conditions. <i>Astrophysical Journal Letters</i> , 2021, 922, L41. | 8.3 | 8 |
| 36 | Unexpected Regional Zonal Structures in Low Latitude Ionosphere Call for a High Longitudinal Resolution of the Global Ionospheric Maps. <i>Remote Sensing</i> , 2022, 14, 2315. | 4.0 | 8 |

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|----|--|-----|-----------|
| 37 | Changâ€™E-1 observations of pickup ions near the Moon under different interplanetary magnetic field conditions. Planetary and Space Science, 2013, 79-80, 56-63. | 1.7 | 7 |
| 38 | The effect of zonal wind reversal around sunset on ionospheric interhemispheric asymmetry at March equinox of a solar maximum year 2000. Journal of Geophysical Research: Space Physics, 2017, 122, 4726-4735. | 2.4 | 7 |
| 39 | The influence of outâ€™of-plane shear flow on Hall magnetic reconnection and FTE generation. Journal of Geophysical Research: Space Physics, 2013, 118, 4279-4288. | 2.4 | 5 |
| 40 | Asymmetric Lunar Magnetic Perturbations Produced by Reflected Solar Wind Particles. Astrophysical Journal Letters, 2020, 893, L36. | 8.3 | 5 |
| 41 | Longitudinal Differences in Electron Temperature on Both Sides of Zero Declination Line in the Midâ€™latitude Topside Ionosphere. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA028471. | 2.4 | 5 |
| 42 | Concurrent effects of Martian topography on the thermosphere and ionosphere at high northern latitudes. Earth, Planets and Space, 2022, 74, . | 2.5 | 5 |
| 43 | A New Global Ionospheric Electron Density Model Based on Grid Modeling Method. Space Weather, 2022, 20, . | 3.7 | 5 |
| 44 | Whistler Wings and Reflected Particles During Solar Wind Interaction of Lunar Magnetic Anomalies. Geophysical Research Letters, 2021, 48, e2021GL092425. | 4.0 | 3 |
| 45 | A Meandering Lunar Wake Produced by the Pickup of Reflected Solarâ€™Wind Ions. Geophysical Research Letters, 2021, 48, . | 4.0 | 3 |
| 46 | ULF Fluctuation of Lowâ€™Latitude Ionospheric Electric Fields During Sudden Commencements. Journal of Geophysical Research: Space Physics, 2022, 127, . | 2.4 | 2 |
| 47 | Flow Vortexâ€™Associated Downward Fieldâ€™Aligned Current Retreating in the Nearâ€™Earth Plasma Sheet. Earth and Space Science, 2020, 7, e2019EA000916. | 2.6 | 1 |
| 48 | The northâ€™south asymmetry of Martian ionosphere and thermosphere. Journal of Geophysical Research E: Planets, 0, , . | 3.6 | 0 |