Zhang Hui

List of Publications by Year in descending order

48 papers	795 citations	471509 17 h-index	552781 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. Journal of Geophysical Research: Space Physics, 2013, 118, 284-298.	2.4	59
2	Threeâ€dimensional lunar wake reconstructed from ARTEMIS data. Journal of Geophysical Research: Space Physics, 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. Journal of Geophysical Research, 2005, 110, .	3.3	52
4	Development and validation of inversion technique for substorm current wedge using ground magnetic field data. Journal of Geophysical Research: Space Physics, 2014, 119, 1909-1924.	2.4	43
5	Modeling a forceâ€free flux transfer event probed by multiple Time History of Events and Macroscale Interactions during Substorms (THEMIS) spacecraft. Journal of Geophysical Research, 2008, 113, .	3.3	34
6	Double Star TC-1 observations of component reconnection at the dayside magnetopause: a preliminary study. Annales Geophysicae, 2005, 23, 2889-2895.	1.6	32
7	Evidence that crater flux transfer events are initial stages of typical flux transfer events. Journal of Geophysical Research, 2010, 115, .	3.3	31
8	TC-1 observations of flux pileup and dipolarization-associated expansion in the near-Earth magnetotail during substorms. Geophysical Research Letters, 2007, 34, .	4.0	30
9	Modeling study of nighttime enhancements in F region electron density at low latitudes. Journal of Geophysical Research: Space Physics, 2014, 119, 6648-6656.	2.4	25
10	N_mF₂ enhancement during ionospheric F₂ region nighttime: A statistical analysis based on COSMIC observations during the 2007â€“2009 solar minimum. Journal of Geophysical Research: Space Physics, 2015, 120, 10083-10095.	2.4	24
11	Generation and properties of in vivo flux transfer events. Journal of Geophysical Research, 2012, 117, .	3.3	22
12	The global distribution of the duskâ€toâ€nighttime enhancement of summer N_mF₂ at solar minimum. Journal of Geophysical Research: Space Physics, 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. Journal of Geophysical Research: Space Physics, 2017, 122, 963-977.	2.4	22
14	Multiple Technique Observations of the Ionospheric Responses to the 21 June 2020 Solar Eclipse. Journal of Geophysical Research: Space Physics, 2020, 125, e2020JA028450.	2.4	19
15	MAVEN Observations of Periodic Low-altitude Plasma Clouds at Mars. Astrophysical Journal Letters, 2021, 922, L33.	8.3	19
16	Outward expansion of the lunar wake: ARTEMIS observations. Geophysical Research Letters, 2012, 39, .	4.0	18
17	Dipole tilt angle effect on magnetic reconnection locations on the magnetopause. Journal of Geophysical Research: Space Physics, 2015, 120, 5344-5354.	2.4	18
18	Earth Wind as a Possible Exogenous Source of Lunar Surface Hydration. Astrophysical Journal Letters, 2021, 907, L32.	8.3	18

#	Article	IF	Citations
19	AlfvÃ©n wings in the lunar wake: The role of pressure gradients. Journal of Geophysical Research: Space Physics, 2016, 121, 10,698.	2.4	17
20	Kinetic-scale Flux Rope in the Magnetosheath Boundary Layer. Astrophysical Journal, 2020, 897, 137.	4.5	16
21	MESSENGER Observations of Rapid and Impulsive Magnetic Reconnection in Mercury's Magnetotail. Astrophysical Journal Letters, 2018, 860, L20.	8.3	15
22	Formation of Macroscale Flux Transfer Events at Mercury. Astrophysical Journal Letters, 2020, 893, L18.	8.3	15
23	Effects of the 21 June 2020 Solar Eclipse on Conjugate Hemispheres: A Modeling Study. Journal of Geophysical Research: Space Physics, 2020, 125, e2020JA028344.	2.4	14
24	New Features of the Enhancements in Electron Density at Low Latitudes. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027539.	2.4	12
25	Flow vortices associated with flux transfer events moving along the magnetopause: Observations and an MHD simulation. Journal of Geophysical Research, 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. Geophysical Research Letters, 2020, 47, e2019GL086208.	4.0	11
27	Interhemispheric Transport of the Ionospheric F Region Plasma During the 2009 Sudden Stratosphere Warming. Geophysical Research Letters, 2020, 47, e2020GL087078.	4.0	11
28	Statistics on the Magnetosheath Properties Related to Magnetopause Magnetic Reconnection. Astrophysical Journal, 2019, 880, 122.	4.5	10
29	Propagation properties of foreshock cavitons: Cluster observations. Science China Technological Sciences, 2020, 63, 173-182.	4.0	10
30	Equatorial Northâ€South Difference of Noontime Electron Density Biteâ€Out in the F₂ Layer. Journal of Geophysical Research: Space Physics, 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. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027751.	2.4	10
32	Effects of Orbital Eccentricity and IMF Cone Angle on the Dimensions of Mercuryâ€™s Magnetosphere. Astrophysical Journal, 2020, 892, 2.	4.5	10
33	Latitudinal Dependence of Daytime Electron Density Biteâ€Out in the Ionospheric F₂â€Layer. Journal of Geophysical Research: Space Physics, 2021, 126, .	2.4	9
34	Trapped and Accelerated Electrons Within a Magnetic Mirror Behind a Flux Rope on the Magnetopause. Journal of Geophysical Research: Space Physics, 2019, 124, 3993-4008.	2.4	8
35	Energetic Neutral Atom Distribution on the Lunar Surface and Its Relationship with Solar Wind Conditions. Astrophysical Journal Letters, 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. Remote Sensing, 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€ofâ€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