

Zhang Hui

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

44 papers	552 citations	14 h-index	21 g-index
52 ext. papers	691 ext. citations	3.8 avg, IF	3.18 L-index

#	Paper	IF	Citations
44	Concurrent effects of Martian topography on the thermosphere and ionosphere at high northern latitudes. <i>Earth, Planets and Space</i> , 2022 , 74,	2.9	1
43	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	5	2
42	MAVEN Observations of Periodic Low-altitude Plasma Clouds at Mars. <i>Astrophysical Journal Letters</i> , 2021 , 922, L33	7.9	5
41	Energetic Neutral Atom Distribution on the Lunar Surface and Its Relationship with Solar Wind Conditions. <i>Astrophysical Journal Letters</i> , 2021 , 922, L41	7.9	0
40	Whistler Wings and Reflected Particles During Solar Wind Interaction of Lunar Magnetic Anomalies. <i>Geophysical Research Letters</i> , 2021 , 48, e2021GL092425	4.9	1
39	Earth Wind as a Possible Exogenous Source of Lunar Surface Hydration. <i>Astrophysical Journal Letters</i> , 2021 , 907, L32	7.9	9
38	Longitudinal Differences in Electron Temperature on Both Sides of Zero Declination Line in the Mid-latitude Topside Ionosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2021 , 126, e2020JA028471	2.6	3
37	A Meandering Lunar Wake Produced by the Pickup of Reflected Solar-Wind Ions. <i>Geophysical Research Letters</i> , 2021 , 48,	4.9	0
36	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	2.6	3
35	Effects of Orbital Eccentricity and IMF Cone Angle on the Dimensions of Mercury's Magnetosphere. <i>Astrophysical Journal</i> , 2020 , 892, 2	4.7	2
34	Formation of Macroscale Flux Transfer Events at Mercury. <i>Astrophysical Journal Letters</i> , 2020 , 893, L18	7.9	9
33	New Features of the Enhancements in Electron Density at Low Latitudes. <i>Journal of Geophysical Research: Space Physics</i> , 2020 , 125, e2019JA027539	2.6	4
32	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	4.9	4
31	Asymmetric Lunar Magnetic Perturbations Produced by Reflected Solar Wind Particles. <i>Astrophysical Journal Letters</i> , 2020 , 893, L36	7.9	2
30	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	2.6	9
29	Kinetic-scale Flux Rope in the Magnetosheath Boundary Layer. <i>Astrophysical Journal</i> , 2020 , 897, 137	4.7	8
28	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	2.6	6

27	Equatorial North-South Difference of Noontime Electron Density Bite-Out in the F2 Layer. <i>Journal of Geophysical Research: Space Physics</i> , 2020 , 125, e2020JA028124	2.6	1
26	Propagation properties of foreshock cavitons: Cluster observations. <i>Science China Technological Sciences</i> , 2020 , 63, 173-182	3.5	5
25	Flow Vortex-Associated Downward Field-Aligned Current Retreating in the Near-Earth Plasma Sheet. <i>Earth and Space Science</i> , 2020 , 7, e2019EA000916	3.1	0
24	Interhemispheric Transport of the Ionospheric F Region Plasma During the 2009 Sudden Stratosphere Warming. <i>Geophysical Research Letters</i> , 2020 , 47, e2020GL087078	4.9	6
23	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	2.6	7
22	Statistics on the Magnetosheath Properties Related to Magnetopause Magnetic Reconnection. <i>Astrophysical Journal</i> , 2019 , 880, 122	4.7	5
21	MESSENGER Observations of Rapid and Impulsive Magnetic Reconnection in Mercury's Magnetotail. <i>Astrophysical Journal Letters</i> , 2018 , 860, L20	7.9	12
20	The effect of zonal wind reversal around sunset on ionospheric interhemispheric asymmetry at March equinox of a solar maximum year 2000. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 4726-4735	2.6	6
19	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	2.6	18
18	The global distribution of the dusk-to-nighttime enhancement of summer NmF2 at solar minimum. <i>Journal of Geophysical Research: Space Physics</i> , 2016 , 121, 7914-7922	2.6	10
17	Alfvén wings in the lunar wake: The role of pressure gradients. <i>Journal of Geophysical Research: Space Physics</i> , 2016 , 121, 10,698-10,711	2.6	14
16	Dipole tilt angle effect on magnetic reconnection locations on the magnetopause. <i>Journal of Geophysical Research: Space Physics</i> , 2015 , 120, 5344-5354	2.6	16
15	NmF2 enhancement during ionospheric F2 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	2.6	18
14	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	2.6	38
13	Modeling study of nighttime enhancements in F region electron density at low latitudes. <i>Journal of Geophysical Research: Space Physics</i> , 2014 , 119, 6648-6656	2.6	20
12	Three-dimensional lunar wake reconstructed from ARTEMIS data. <i>Journal of Geophysical Research: Space Physics</i> , 2014 , 119, 5220-5243	2.6	45
11	ChangE-1 observations of pickup ions near the Moon under different interplanetary magnetic field conditions. <i>Planetary and Space Science</i> , 2013 , 79-80, 56-63	2	5
10	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	2.6	49

9	The influence of out-of-plane shear flow on Hall magnetic reconnection and FTE generation. <i>Journal of Geophysical Research: Space Physics</i> , 2013 , 118, 4279-4288	2.6	5
8	Generation and properties of in vivo flux transfer events. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		20
7	Outward expansion of the lunar wake: ARTEMIS observations. <i>Geophysical Research Letters</i> , 2012 , 39,	4.9	12
6	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		8
5	Evidence that crater flux transfer events are initial stages of typical flux transfer events. <i>Journal of Geophysical Research</i> , 2010 , 115, n/a-n/a		25
4	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, n/a-n/a		32
3	TC-1 observations of flux pileup and dipolarization-associated expansion in the near-Earth magnetotail during substorms. <i>Geophysical Research Letters</i> , 2007 , 34,	4.9	29
2	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,		45
1	Double Star TC-1 observations of component reconnection at the dayside magnetopause: a preliminary study. <i>Annales Geophysicae</i> , 2005 , 23, 2889-2895	2	29