

Hui Zhang

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.

109
papers

2,247
citations

28
h-index

42
g-index

121
ext. papers

2,631
ext. citations

3.3
avg, IF

4.56
L-index

#	Paper	IF	Citations
109	Observational evidence of ring current in the magnetosphere of Mercury.. <i>Nature Communications</i> , 2022 , 13, 924	17.4	5
108	Motion of Classic and Spontaneous Hot Flow Anomalies Observed by Cluster. <i>Journal of Geophysical Research: Space Physics</i> , 2021 , 126, e2021JA029418	2.6	0
107	Vortex Generation and Auroral Response to a Solar Wind Dynamic Pressure Increase: Event Analyses. <i>Journal of Geophysical Research: Space Physics</i> , 2021 , 126, e2020JA028753	2.6	0
106	Statistical Study of Foreshock Transients in the Midtail Foreshock. <i>Journal of Geophysical Research: Space Physics</i> , 2021 , 126, e2021JA029156	2.6	4
105	Energy Modulations of Magnetospheric Ions Induced by Foreshock Transient-Driven Ultralow-Frequency Waves. <i>Geophysical Research Letters</i> , 2021 , 48, e2021GL093913	4.9	8
104	Bow shock transients caused by solar wind dynamic pressure depletions. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2021 , 218, 105615	2	1
103	Observations of the Beam-Driven Whistler Mode Waves in the Magnetic Reconnection Region at the Dayside Magnetopause. <i>Journal of Geophysical Research: Space Physics</i> , 2021 , 126, e2020JA028525	2.6	2
102	Kinetic-Scale Magnetic Holes Inside Foreshock Transients. <i>Journal of Geophysical Research: Space Physics</i> , 2021 , 126, e2021JA029748	2.6	1
101	Observations of an Electron-Cold Ion Component Reconnection at the Edge of an Ion-Scale Antiparallel Reconnection at the Dayside Magnetopause. <i>Journal of Geophysical Research: Space Physics</i> , 2021 , 126, e2021JA029390	2.6	
100	Statistical properties of kinetic-scale magnetic holes in terrestrial space. <i>Earth and Planetary Physics</i> , 2021 , 5, 63-72	1.6	6
99	Magnetospheric Multiscale Observations of Earth's Oblique Bow Shock Reformation by Foreshock Ultralow-Frequency Waves. <i>Geophysical Research Letters</i> , 2021 , 48, e2020GL091184	4.9	3
98	Low-frequency Whistler Waves Modulate Electrons and Generate Higher-frequency Whistler Waves in the Solar Wind. <i>Astrophysical Journal</i> , 2021 , 923, 216	4.7	0
97	Dayside Magnetosphere Interactions. <i>Geophysical Monograph Series</i> , 2020 , 303-306	1.1	
96	Interactions Between ULF Waves and Cold Plasmaspheric Particles. <i>Geophysical Monograph Series</i> , 2020 , 265-284	1.1	
95	Transient Phenomena at the Magnetopause and Bow Shock and Their Ground Signatures. <i>Geophysical Monograph Series</i> , 2020 , 11-37	1.1	6
94	Magnetosphere Response to Solar Wind Dynamic Pressure Change. <i>Geophysical Monograph Series</i> , 2020 , 77-97	1.1	4
93	Transient Solar Wind Magnetosphere Ionosphere Interaction Associated with Foreshock and Magnetosheath Transients and Localized Magnetopause Reconnection. <i>Geophysical Monograph Series</i> , 2020 , 39-53	1.1	3

92	Multi-Point Observations of the Geospace Plume. <i>Geophysical Monograph Series</i> , 2020 , 243-264	1.1	2
91	Ultra-Low-Frequency Wave-Particle Interactions in Earth's Outer Radiation Belt. <i>Geophysical Monograph Series</i> , 2020 , 189-205	1.1	2
90	Ion-Scale Flux Rope Observed inside a Hot Flow Anomaly. <i>Geophysical Research Letters</i> , 2020 , 47, e2019GL085963	4.9	3
89	Cluster Observations on Time-of-Flight Effect of Oxygen Ions in Magnetotail Reconnection Exhaust Region. <i>Geophysical Research Letters</i> , 2020 , 47, e2019GL085200	4.9	0
88	Magnetospheric Multiscale (MMS) Observations of Magnetic Reconnection in Foreshock Transients. <i>Journal of Geophysical Research: Space Physics</i> , 2020 , 125, e2020JA027822	2.6	12
87	Dayside Magnetospheric Interactions Inferred from Dayside Diffuse Aurora and Throat Aurora. <i>Geophysical Monograph Series</i> , 2020 , 55-75	1.1	
86	Cluster Mission's Recent Highlights at Dayside Boundaries. <i>Geophysical Monograph Series</i> , 2020 , 99-115	1.1	0
85	Magnetospheric Multiscale Observations of Foreshock Transients at Their Very Early Stage. <i>Astrophysical Journal</i> , 2020 , 902, 5	4.7	7
84	A Brief History of Dayside Magnetospheric Physics. <i>Geophysical Monograph Series</i> , 2020 , 1-10	1.1	
83	Kinetic-scale Flux Rope in the Magnetosheath Boundary Layer. <i>Astrophysical Journal</i> , 2020 , 897, 137	4.7	8
82	Global Propagation of Magnetospheric Pc5 ULF Waves Driven by Foreshock Transients. <i>Journal of Geophysical Research: Space Physics</i> , 2020 , 125, e2020JA028411	2.6	10
81	ARTEMIS Observations of Foreshock Transients in the Midtail Foreshock. <i>Geophysical Research Letters</i> , 2020 , 47, e2020GL090393	4.9	8
80	Propagation properties of foreshock cavitons: Cluster observations. <i>Science China Technological Sciences</i> , 2020 , 63, 173-182	3.5	5
79	Structure and Dynamics of the Magnetosheath. <i>Geophysical Monograph Series</i> , 2020 , 117-133	1.1	1
78	Methods for Finding Magnetic Nulls and Reconstructing Field Topology. <i>Geophysical Monograph Series</i> , 2020 , 153-172	1.1	4
77	MMS observations of electron scale magnetic cavity embedded in proton scale magnetic cavity. <i>Nature Communications</i> , 2019 , 10, 1040	17.4	27
76	The Geometry of an Electron Scale Magnetic Cavity in the Plasma Sheet. <i>Geophysical Research Letters</i> , 2019 , 46, 9308-9317	4.9	7
75	ULF Waves Modulating and Acting as Mass Spectrometer for Dayside Ionospheric Outflow Ions. <i>Geophysical Research Letters</i> , 2019 , 46, 8633-8642	4.9	10

74	The 2-D Structure of Foreshock-Driven Field Line Resonances Observed by THEMIS Satellite and Ground-Based Imager Conjunctions. <i>Journal of Geophysical Research: Space Physics</i> , 2019 , 124, 6792-6811	2.6	16
73	Electron Mirror-mode Structure: Magnetospheric Multiscale Observations. <i>Astrophysical Journal Letters</i> , 2019 , 881, L31	7.9	20
72	Waves in Kinetic-Scale Magnetic Dips: MMS Observations in the Magnetosheath. <i>Geophysical Research Letters</i> , 2019 , 46, 523-533	4.9	35
71	Spatial Distribution and Semiannual Variation of Cold-Dense Plasma Sheet. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 464-472	2.6	3
70	Magnetospheric Multiscale Observations of Electron Scale Magnetic Peak. <i>Geophysical Research Letters</i> , 2018 , 45, 527-537	4.9	25
69	Observations of Kelvin-Helmholtz Waves in the Earth's Magnetotail Near the Lunar Orbit. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 3836-3847	2.6	10
68	Dayside Magnetospheric and Ionospheric Responses to a Foreshock Transient on 25 June 2008: 1. FLR Observed by Satellite and Ground-Based Magnetometers. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 6335-6346	2.6	29
67	Electron Dynamics in Magnetosheath Mirror-Mode Structures. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 5561-5570	2.6	24
66	Subsidence of Ionospheric Flows Triggered by Magnetotail Magnetic Reconnection During Transpolar Arc Brightening. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 3398-3420	2.6	5
65	Dayside Magnetospheric and Ionospheric Responses to a Foreshock Transient on 25 June 2008: 2. 2-D Evolution Based on Dayside Auroral Imaging. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 6347-6359	2.6	32
64	Ion Kinetics in a Hot Flow Anomaly: MMS Observations. <i>Geophysical Research Letters</i> , 2018 , 45, 11,520	4.9	18
63	Observations of kinetic-size magnetic holes in the magnetosheath. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 1990-2000	2.6	54
62	A statistical study on hot flow anomaly current sheets. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 235-248	2.6	10
61	THEMIS satellite observations of hot flow anomalies at Earth's bow shock. <i>Annales Geophysicae</i> , 2017 , 35, 443-451	2	18
60	Global ULF waves generated by a hot flow anomaly. <i>Geophysical Research Letters</i> , 2017 , 44, 5283-5291	4.9	28
59	Corotating drift-bounce resonance of plasmaspheric electron with poloidal ULF waves. <i>Earth and Planetary Physics</i> , 2017 , 1, 2-12	1.6	10
58	Propagation of small size magnetic holes in the magnetospheric plasma sheet. <i>Journal of Geophysical Research: Space Physics</i> , 2016 , 121, 5510-5519	2.6	26
57	A statistical study of plasmaspheric plumes and ionospheric outflows observed at the dayside magnetopause. <i>Journal of Geophysical Research: Space Physics</i> , 2016 , 121, 492-506	2.6	29

56	Interaction between reconnection and Kelvin-Helmholtz at the high-latitude magnetopause. <i>Advances in Space Research</i> , 2016 , 58, 231-239	2.4	12
55	Statistics of the field-aligned currents at the high-latitude energetic electron boundaries in the nightside: Cluster observation. <i>Journal of Geophysical Research: Space Physics</i> , 2016 , 121, 1979-1989	2.6	3
54	Impacts of spontaneous hot flow anomalies on the magnetosheath and magnetopause. <i>Journal of Geophysical Research: Space Physics</i> , 2016 , 121, 3155-3169	2.6	34
53	Propagation characteristics of young hot flow anomalies near the bow shock: Cluster observations. <i>Journal of Geophysical Research: Space Physics</i> , 2015 , 120, 4142-4154	2.6	14
52	Asymmetric ionospheric outflow observed at the dayside magnetopause. <i>Journal of Geophysical Research: Space Physics</i> , 2015 , 120, 3564-3573	2.6	15
51	Case and statistical studies on the evolution of hot flow anomalies. <i>Journal of Geophysical Research: Space Physics</i> , 2015 , 120, 6332-6346	2.6	9
50	Plasma and Magnetic-Field Characteristics of Magnetic Decreases in the Solar Wind at 1 AU: Cluster-C1 Observations. <i>Solar Physics</i> , 2014 , 289, 3175-3195	2.6	14
49	Plasma and energetic particle behaviors during asymmetric magnetic reconnection at the magnetopause. <i>Journal of Geophysical Research: Space Physics</i> , 2014 , 119, 1658-1672	2.6	28
48	Interactions of energetic electrons with ULF waves triggered by interplanetary shock: Van Allen Probes observations in the magnetotail. <i>Journal of Geophysical Research: Space Physics</i> , 2014 , 119, 8262-8273	2.6	47
47	Solar wind pressure pulse-driven magnetospheric vortices and their global consequences. <i>Journal of Geophysical Research: Space Physics</i> , 2014 , 119, 4274-4280	2.6	41
46	Parametric dependencies of spontaneous hot flow anomalies. <i>Journal of Geophysical Research: Space Physics</i> , 2014 , 119, 9823-9833	2.6	23
45	Three-dimensional lunar wake reconstructed from ARTEMIS data. <i>Journal of Geophysical Research: Space Physics</i> , 2014 , 119, 5220-5243	2.6	45
44	Plasma and Magnetic-Field Characteristics of Magnetic Decreases in the Solar Wind at 1 AU: Cluster-C1 Observations 2014 , 553-573		0
43	Solar wind entry into the high-latitude terrestrial magnetosphere during geomagnetically quiet times. <i>Nature Communications</i> , 2013 , 4, 1466	17.4	53
42	Hot flow anomaly formation and evolution: Cluster observations. <i>Journal of Geophysical Research: Space Physics</i> , 2013 , 118, 4360-4380	2.6	23
41	Cluster observations of hot flow anomalies with large flow deflections: 1. Velocity deflections. <i>Journal of Geophysical Research: Space Physics</i> , 2013 , 118, 732-743	2.6	18
40	Spontaneous hot flow anomalies at quasi-parallel shocks: 1. Observations. <i>Journal of Geophysical Research: Space Physics</i> , 2013 , 118, 3357-3363	2.6	81
39	Poloidal ULF wave observed in the plasmasphere boundary layer. <i>Journal of Geophysical Research: Space Physics</i> , 2013 , 118, 4298-4307	2.6	56

38	Spontaneous hot flow anomalies at quasi-parallel shocks: 2. Hybrid simulations. <i>Journal of Geophysical Research: Space Physics</i> , 2013 , 118, 173-180	2.6	72
37	Two different types of plasmoids in the plasma sheet: Cluster multisatellite analysis application. <i>Journal of Geophysical Research: Space Physics</i> , 2013 , 118, 5437-5444	2.6	15
36	Cluster observations of hot flow anomalies with large flow deflections: 2. Bow shock geometry at HFA edges. <i>Journal of Geophysical Research: Space Physics</i> , 2013 , 118, 418-433	2.6	15
35	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
34	Dynamics of the foreshock compressional boundary and its connection to foreshock cavities. <i>Journal of Geophysical Research: Space Physics</i> , 2013 , 118, 823-831	2.6	34
33	Fast acceleration of inner magnetospheric hydrogen and oxygen ions by shock induced ULF waves. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		65
32	Generation and properties of in vivo flux transfer events. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		20
31	Mechanism of substorm current wedge formation: THEMIS observations. <i>Geophysical Research Letters</i> , 2012 , 39, n/a-n/a	4.9	65
30	Cases and statistical study on Hot Flow Anomalies with Cluster spacecraft data. <i>Science China Technological Sciences</i> , 2012 , 55, 1402-1418	3.5	8
29	Global magnetospheric response to an interplanetary shock: THEMIS observations. <i>Annales Geophysicae</i> , 2012 , 30, 379-387	2	13
28	Magnetic flux rope formation within a magnetosheath hot flow anomaly. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		17
27	Proton auroral intensification induced by interplanetary shock on 7 November 2004. <i>Journal of Geophysical Research</i> , 2011 , 116, n/a-n/a		6
26	Anomalous interaction of a plasma flow with the boundary layers of a geomagnetic trap. <i>JETP Letters</i> , 2011 , 93, 754-762	1.2	14
25	THEMIS observations of earthward convected flux ropes triggering field dipolarization/substorm expansion and associated particle energization. <i>Annales Geophysicae</i> , 2011 , 29, 2117-2130	2	9
24	ULF waves excited by negative/positive solar wind dynamic pressure impulses at geosynchronous orbit. <i>Journal of Geophysical Research</i> , 2010 , 115, n/a-n/a		71
23	Time History of Events and Macroscale Interactions during Substorms observations of a series of hot flow anomaly events. <i>Journal of Geophysical Research</i> , 2010 , 115, n/a-n/a		65
22	Geomagnetic activity triggered by interplanetary shocks. <i>Journal of Geophysical Research</i> , 2010 , 115, n/a-n/a		45
21	Spatial structures of magnetic depression in the Earth's high-altitude cusp: Cluster multipoint observations. <i>Journal of Geophysical Research</i> , 2009 , 114, n/a-n/a		43

20	Vortex-like plasma flow structures observed by Cluster at the boundary of the outer radiation belt and ring current: A link between the inner and outer magnetosphere. <i>Journal of Geophysical Research</i> , 2009 , 114, n/a-n/a		14
19	Cluster observations of the entry layer equatorward of the cusp under northward interplanetary magnetic field. <i>Journal of Geophysical Research</i> , 2009 , 114, n/a-n/a		31
18	Dynamic motion of the bow shock and the magnetopause observed by THEMIS spacecraft. <i>Journal of Geophysical Research</i> , 2009 , 114, n/a-n/a		19
17	Multiple cusps during an extended northward IMF period with a significant By component. <i>Journal of Geophysical Research</i> , 2008 , 113, n/a-n/a		12
16	Ionospheric oxygen ions dominant bursty bulk flows: Cluster and Double Star observations. <i>Journal of Geophysical Research</i> , 2008 , 113, n/a-n/a		16
15	Cluster observations of collisionless Hall reconnection at high-latitude magnetopause. <i>Journal of Geophysical Research</i> , 2008 , 113, n/a-n/a		12
14	Multispacecraft and ground-based observations of substorm timing and activations: Two case studies. <i>Journal of Geophysical Research</i> , 2008 , 113, n/a-n/a		18
13	Cluster observations of particle acceleration up to supra-thermal energies in the cusp region related to low-frequency wave activity [possible implications for the substorm initiation process. <i>Annales Geophysicae</i> , 2008 , 26, 653-669	2	9
12	Structure and dynamics of high latitude magnetospheric boundaries. <i>Planetary and Space Science</i> , 2008 , 56, 1568-1570	2	1
11	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
10	Geometry of the high-latitude magnetopause as observed by Cluster. <i>Journal of Geophysical Research</i> , 2007 , 112, n/a-n/a		17
9	Plasmoid in the high latitude boundary/cusp region observed by Cluster. <i>Geophysical Research Letters</i> , 2005 , 32,	4.9	20
8	Stagnant exterior cusp region as viewed by energetic electrons and ions: A statistical study using Cluster Research with Adaptive Particle Imaging Detectors (RAPID) data. <i>Journal of Geophysical Research</i> , 2005 , 110,		24
7	Dimensional analysis of observed structures using multipoint magnetic field measurements: Application to Cluster. <i>Geophysical Research Letters</i> , 2005 , 32, n/a-n/a	4.9	108
6	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
5	Simulation Studies of High-Latitude Magnetospheric Boundary Dynamics. <i>Surveys in Geophysics</i> , 2005 , 26, 369-386	7.6	6
4	Triple cusps observed by Cluster—temporal or spatial effect?. <i>Geophysical Research Letters</i> , 2004 , 31, n/a-n/a	4.9	31
3	Cluster observations of earthward flowing plasmoid in the tail. <i>Geophysical Research Letters</i> , 2004 , 31,	4.9	110

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