Hui Zhang

List of Publications by Citations

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	Cluster observations of earthward flowing plasmoid in the tail. *Geophysical Research Letters*, **2004**, 31,	4.9	110
108	Dimensional analysis of observed structures using multipoint magnetic field measurements: Application to Cluster. *Geophysical Research Letters*, **2005**, 32, n/a-n/a	4.9	108
107	Spontaneous hot flow anomalies at quasi-parallel shocks: 1. Observations. *Journal of Geophysical Research: Space Physics*, **2013**, 118, 3357-3363	2.6	81
106	Spontaneous hot flow anomalies at quasi-parallel shocks: 2. Hybrid simulations. *Journal of Geophysical Research: Space Physics*, **2013**, 118, 173-180	2.6	72
105	ULF waves excited by negative/positive solar wind dynamic pressure impulses at geosynchronous orbit. *Journal of Geophysical Research*, **2010**, 115, n/a-n/a		71
104	Fast acceleration of inner magnetospheric hydrogen and oxygen ions by shock induced ULF waves. *Journal of Geophysical Research*, **2012**, 117, n/a-n/a		65
103	Mechanism of substorm current wedge formation: THEMIS observations. *Geophysical Research Letters*, **2012**, 39, n/a-n/a	4.9	65
102	Time History of Events and Macroscale Interactions during Substorms observations of a series of hot flow anomaly events. *Journal of Geophysical Research*, **2010**, 115, n/a-n/a		65
101	Poloidal ULF wave observed in the plasmasphere boundary layer. *Journal of Geophysical Research: Space Physics*, **2013**, 118, 4298-4307	2.6	56
100	Observations of kinetic-size magnetic holes in the magnetosheath. *Journal of Geophysical Research: Space Physics*, **2017**, 122, 1990-2000	2.6	54
99	Solar wind entry into the high-latitude terrestrial magnetosphere during geomagnetically quiet times. *Nature Communications*, **2013**, 4, 1466	17.4	53
98	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	2.6	49
97	Interactions of energetic electrons with ULF waves triggered by interplanetary shock: Van Allen Probes observations in the magnetotail. *Journal of Geophysical Research: Space Physics*, **2014**, 119, 8262-8273	2.6	47
96	Three-dimensional lunar wake reconstructed from ARTEMIS data. *Journal of Geophysical Research: Space Physics*, **2014**, 119, 5220-5243	2.6	45
95	Geomagnetic activity triggered by interplanetary shocks. *Journal of Geophysical Research*, **2010**, 115, n/a-n/a		45
94	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,		45
93	Spatial structures of magnetic depression in the Earth's high-altitude cusp: Cluster multipoint observations. *Journal of Geophysical Research*, **2009**, 114, n/a-n/a		43

92	Solar wind pressure pulse-driven magnetospheric vortices and their global consequences. *Journal of Geophysical Research: Space Physics*, **2014**, 119, 4274-4280	2.6	41
91	Waves in Kinetic-Scale Magnetic Dips: MMS Observations in the Magnetosheath. *Geophysical Research Letters*, **2019**, 46, 523-533	4.9	35
90	Dynamics of the foreshock compressional boundary and its connection to foreshock cavities. *Journal of Geophysical Research: Space Physics*, **2013**, 118, 823-831	2.6	34
89	Impacts of spontaneous hot flow anomalies on the magnetosheath and magnetopause. *Journal of Geophysical Research: Space Physics*, **2016**, 121, 3155-3169	2.6	34
88	Dayside Magnetospheric and Ionospheric Responses to a Foreshock Transient on 25 June 2008: 2. 2-D Evolution Based on Dayside Auroral Imaging. *Journal of Geophysical Research: Space Physics*, **2018**, 123, 6347-6359	2.6	32
87	Cluster observations of the entry layer equatorward of the cusp under northward interplanetary magnetic field. *Journal of Geophysical Research*, **2009**, 114, n/a-n/a		31
86	Triple cusps observed by Cluster□emporal or spatial effect?. *Geophysical Research Letters*, **2004**, 31, n/a-n/a	4.9	31
85	A statistical study of plasmaspheric plumes and ionospheric outflows observed at the dayside magnetopause. *Journal of Geophysical Research: Space Physics*, **2016**, 121, 492-506	2.6	29
84	Dayside Magnetospheric and Ionospheric Responses to a Foreshock Transient on 25 June 2008: 1. FLR Observed by Satellite and Ground-Based Magnetometers. *Journal of Geophysical Research: Space Physics*, **2018**, 123, 6335-6346	2.6	29
83	TC-1 observations of flux pileup and dipolarization-associated expansion in the near-Earth magnetotail during substorms. *Geophysical Research Letters*, **2007**, 34,	4.9	29
82	Plasma and energetic particle behaviors during asymmetric magnetic reconnection at the magnetopause. *Journal of Geophysical Research: Space Physics*, **2014**, 119, 1658-1672	2.6	28
81	Global ULF waves generated by a hot flow anomaly. *Geophysical Research Letters*, **2017**, 44, 5283-5291	4.9	28
80	MMS observations of electron scale magnetic cavity embedded in proton scale magnetic cavity. *Nature Communications*, **2019**, 10, 1040	17.4	27
79	Propagation of small size magnetic holes in the magnetospheric plasma sheet. *Journal of Geophysical Research: Space Physics*, **2016**, 121, 5510-5519	2.6	26
78	Magnetospheric Multiscale Observations of Electron Scale Magnetic Peak. *Geophysical Research Letters*, **2018**, 45, 527-537	4.9	25
77	Electron Dynamics in Magnetosheath Mirror-Mode Structures. *Journal of Geophysical Research: Space Physics*, **2018**, 123, 5561-5570	2.6	24
76	Stagnant exterior cusp region as viewed by energetic electrons and ions: A statistical study using Cluster Research with Adaptive Particle Imaging Detectors (RAPID) data. *Journal of Geophysical Research*, **2005**, 110,		24
75	Parametric dependencies of spontaneous hot flow anomalies. *Journal of Geophysical Research: Space Physics*, **2014**, 119, 9823-9833	2.6	23

74	Hot flow anomaly formation and evolution: Cluster observations. *Journal of Geophysical Research: Space Physics*, **2013**, 118, 4360-4380	2.6	23
73	Electron Mirror-mode Structure: Magnetospheric Multiscale Observations. *Astrophysical Journal Letters*, **2019**, 881, L31	7.9	20
72	Generation and properties of in vivo flux transfer events. *Journal of Geophysical Research*, **2012**, 117, n/a-n/a		20
71	Plasmoid in the high latitude boundary/cusp region observed by Cluster. *Geophysical Research Letters*, **2005**, 32,	4.9	20
70	Dynamic motion of the bow shock and the magnetopause observed by THEMIS spacecraft. *Journal of Geophysical Research*, **2009**, 114, n/a-n/a		19
69	THEMIS satellite observations of hot flow anomalies at Earth's bow shock. *Annales Geophysicae*, **2017**, 35, 443-451	2	18
68	Cluster observations of hot flow anomalies with large flow deflections: 1. Velocity deflections. *Journal of Geophysical Research: Space Physics*, **2013**, 118, 732-743	2.6	18
67	Multispacecraft and ground-based observations of substorm timing and activations: Two case studies. *Journal of Geophysical Research*, **2008**, 113, n/a-n/a		18
66	Ion Kinetics in a Hot Flow Anomaly: MMS Observations. *Geophysical Research Letters*, **2018**, 45, 11,520	4.9	18
65	Magnetic flux rope formation within a magnetosheath hot flow anomaly. *Journal of Geophysical Research*, **2012**, 117, n/a-n/a		17
64	Geometry of the high-latitude magnetopause as observed by Cluster. *Journal of Geophysical Research*, **2007**, 112, n/a-n/a		17
63	The 2-D Structure of Foreshock-Driven Field Line Resonances Observed by THEMIS Satellite and Ground-Based Imager Conjunctions. *Journal of Geophysical Research: Space Physics*, **2019**, 124, 6792-6811	2.6	16
62	Ionospheric oxygen ions dominant bursty bulk flows: Cluster and Double Star observations. *Journal of Geophysical Research*, **2008**, 113, n/a-n/a		16
61	Asymmetric ionospheric outflow observed at the dayside magnetopause. *Journal of Geophysical Research: Space Physics*, **2015**, 120, 3564-3573	2.6	15
60	Two different types of plasmoids in the plasma sheet: Cluster multisatellite analysis application. *Journal of Geophysical Research: Space Physics*, **2013**, 118, 5437-5444	2.6	15
59	Cluster observations of hot flow anomalies with large flow deflections: 2. Bow shock geometry at HFA edges. *Journal of Geophysical Research: Space Physics*, **2013**, 118, 418-433	2.6	15
58	Plasma and Magnetic-Field Characteristics of Magnetic Decreases in the Solar Wind at 1 AU: Cluster-C1 Observations. *Solar Physics*, **2014**, 289, 3175-3195	2.6	14
57	Propagation characteristics of young hot flow anomalies near the bow shock: Cluster observations. *Journal of Geophysical Research: Space Physics*, **2015**, 120, 4142-4154	2.6	14

56	Anomalous interaction of a plasma flow with the boundary layers of a geomagnetic trap. *JETP Letters*, **2011**, 93, 754-762	1.2	14
55	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. *Journal of Geophysical Research*, **2009**, 114, n/a-n/a		14
54	Global magnetospheric response to an interplanetary shock: THEMIS observations. *Annales Geophysicae*, **2012**, 30, 379-387	2	13
53	Magnetospheric Multiscale (MMS) Observations of Magnetic Reconnection in Foreshock Transients. *Journal of Geophysical Research: Space Physics*, **2020**, 125, e2020JA027822	2.6	12
52	Interaction between reconnection and Kelvin□Helmholtz at the high-latitude magnetopause. *Advances in Space Research*, **2016**, 58, 231-239	2.4	12
51	Multiple cusps during an extended northward IMF period with a significant By component. *Journal of Geophysical Research*, **2008**, 113, n/a-n/a		12
50	Cluster observations of collisionless Hall reconnection at high-latitude magnetopause. *Journal of Geophysical Research*, **2008**, 113, n/a-n/a		12
49	A statistical study on hot flow anomaly current sheets. *Journal of Geophysical Research: Space Physics*, **2017**, 122, 235-248	2.6	10
48	Observations of Kelvin-Helmholtz Waves in the Earth's Magnetotail Near the Lunar Orbit. *Journal of Geophysical Research: Space Physics*, **2018**, 123, 3836-3847	2.6	10
47	ULF Waves Modulating and Acting as Mass Spectrometer for Dayside Ionospheric Outflow Ions. *Geophysical Research Letters*, **2019**, 46, 8633-8642	4.9	10
46	Corotating drift-bounce resonance of plasmaspheric electron with poloidal ULF waves. *Earth and Planetary Physics*, **2017**, 1, 2-12	1.6	10
45	Global Propagation of Magnetospheric Pc5 ULF Waves Driven by Foreshock Transients. *Journal of Geophysical Research: Space Physics*, **2020**, 125, e2020JA028411	2.6	10
44	Case and statistical studies on the evolution of hot flow anomalies. *Journal of Geophysical Research: Space Physics*, **2015**, 120, 6332-6346	2.6	9
43	THEMIS observations of earthward convected flux ropes triggering field dipolarization/substorm expansion and associated particle energization. *Annales Geophysicae*, **2011**, 29, 2117-2130	2	9
42	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. *Annales Geophysicae*, **2008**, 26, 653-669	2	9
41	Cases and statistical study on Hot Flow Anomalies with Cluster spacecraft data. *Science China Technological Sciences*, **2012**, 55, 1402-1418	3.5	8
40	Kinetic-scale Flux Rope in the Magnetosheath Boundary Layer. *Astrophysical Journal*, **2020**, 897, 137	4.7	8
39	ARTEMIS Observations of Foreshock Transients in the Midtail Foreshock. *Geophysical Research Letters*, **2020**, 47, e2020GL090393	4.9	8

38	Energy Modulations of Magnetospheric Ions Induced by Foreshock Transient-Driven Ultralow-Frequency Waves. *Geophysical Research Letters*, **2021**, 48, e2021GL093913	4.9	8
37	The Geometry of an Electron Scale Magnetic Cavity in the Plasma Sheet. *Geophysical Research Letters*, **2019**, 46, 9308-9317	4.9	7
36	Magnetospheric Multiscale Observations of Foreshock Transients at Their Very Early Stage. *Astrophysical Journal*, **2020**, 902, 5	4.7	7
35	Transient Phenomena at the Magnetopause and Bow Shock and Their Ground Signatures. *Geophysical Monograph Series*, **2020**, 11-37	1.1	6
34	Ion-Scale Flux Rope Observed inside a Hot Flow Anomaly. *Geophysical Research Letters*, **2020**, 47, e2019GL085933	4.9	6
33	Proton auroral intensification induced by interplanetary shock on 7 November 2004. *Journal of Geophysical Research*, **2011**, 116, n/a-n/a		6
32	Simulation Studies of High-Latitude Magnetospheric Boundary Dynamics. *Surveys in Geophysics*, **2005**, 26, 369-386	7.6	6
31	Statistical properties of kinetic-scale magnetic holes in terrestrial space. *Earth and Planetary Physics* , **2021**, 5, 63-72	1.6	6
30	Propagation properties of foreshock cavitons: Cluster observations. *Science China Technological Sciences*, **2020**, 63, 173-182	3.5	5
29	Subsidence of Ionospheric Flows Triggered by Magnetotail Magnetic Reconnection During Transpolar Arc Brightening. *Journal of Geophysical Research: Space Physics*, **2018**, 123, 3398-3420	2.6	5
28	Observational evidence of ring current in the magnetosphere of Mercury.. *Nature Communications*, **2022**, 13, 924	17.4	5
27	Magnetosphere Response to Solar Wind Dynamic Pressure Change. *Geophysical Monograph Series*, **2020**, 77-97	1.1	4
26	Statistical Study of Foreshock Transients in the Midtail Foreshock. *Journal of Geophysical Research: Space Physics*, **2021**, 126, e2021JA029156	2.6	4
25	Methods for Finding Magnetic Nulls and Reconstructing Field Topology. *Geophysical Monograph Series*, **2020**, 153-172	1.1	4
24	Transient Solar Wind–Magnetosphere–Ionosphere Interaction Associated with Foreshock and Magnetosheath Transients and Localized Magnetopause Reconnection. *Geophysical Monograph Series*, **2020**, 39-53	1.1	3
23	Spatial Distribution and Semiannual Variation of Cold-Dense Plasma Sheet. *Journal of Geophysical Research: Space Physics*, **2018**, 123, 464-472	2.6	3
22	THE HIGH LATITUDE BOUNDARIES UNDER EXTREME SOLAR WIND CONDITIONS: A CLUSTER PERSPECTIVE	163-172	3
21	Statistics of the field-aligned currents at the high-latitude energetic electron boundaries in the nightside: Cluster observation. *Journal of Geophysical Research: Space Physics*, **2016**, 121, 1979-1989	2.6	3

20	Magnetospheric Multiscale Observations of Earth's Oblique Bow Shock Reformation by Foreshock Ultralow-Frequency Waves. *Geophysical Research Letters*, **2021**, 48, e2020GL091184	4.9	3
19	Multi-Point Observations of the Geospace Plume. *Geophysical Monograph Series*, **2020**, 243-264	1.1	2
18	Ultra-Low-Frequency Wave Particle Interactions in Earth's Outer Radiation Belt. *Geophysical Monograph Series*, **2020**, 189-205	1.1	2
17	Observations of the Beam-Driven Whistler Mode Waves in the Magnetic Reconnection Region at the Dayside Magnetopause. *Journal of Geophysical Research: Space Physics*, **2021**, 126, e2020JA028525	2.6	2
16	Structure and dynamics of high latitude magnetospheric boundaries. *Planetary and Space Science*, **2008**, 56, 1568-1570	2	1
15	Bow shock transients caused by solar wind dynamic pressure depletions. *Journal of Atmospheric and Solar-Terrestrial Physics*, **2021**, 218, 105615	2	1
14	Kinetic-Scale Magnetic Holes Inside Foreshock Transients. *Journal of Geophysical Research: Space Physics*, **2021**, 126, e2021JA029748	2.6	1
13	Structure and Dynamics of the Magnetosheath. *Geophysical Monograph Series*, **2020**, 117-133	1.1	1
12	Magnetic storms in Mercury magnetosphere. *Science China Technological Sciences*,1	3.5	1
11	Cluster Observations on Time-of-Flight Effect of Oxygen Ions in Magnetotail Reconnection Exhaust Region. *Geophysical Research Letters*, **2020**, 47, e2019GL085200	4.9	0
10	Cluster Mission's Recent Highlights at Dayside Boundaries. *Geophysical Monograph Series*, **2020**, 99-115	1.1	0
9	Motion of Classic and Spontaneous Hot Flow Anomalies Observed by Cluster. *Journal of Geophysical Research: Space Physics*, **2021**, 126, e2021JA029418	2.6	0
8	Plasma and Magnetic-Field Characteristics of Magnetic Decreases in the Solar Wind at 1 AU: Cluster-C1 Observations **2014**, 553-573		0
7	Vortex Generation and Auroral Response to a Solar Wind Dynamic Pressure Increase: Event Analyses. *Journal of Geophysical Research: Space Physics*, **2021**, 126, e2020JA028753	2.6	0
6	Low-frequency Whistler Waves Modulate Electrons and Generate Higher-frequency Whistler Waves in the Solar Wind. *Astrophysical Journal*, **2021**, 923, 216	4.7	0
5	Dayside Magnetosphere Interactions. *Geophysical Monograph Series*, **2020**, 303-306	1.1	
4	Interactions Between ULF Waves and Cold Plasmaspheric Particles. *Geophysical Monograph Series*, **2020**, 265-284	1.1	
3	Dayside Magnetospheric Interactions Inferred from Dayside Diffuse Aurora and Throat Aurora. *Geophysical Monograph Series*, **2020**, 55-75	1.1	

2	A Brief History of Dayside Magnetospheric Physics. *Geophysical Monograph Series*, **2020**, 1-10	1.1
1	Observations of an Electron-Cold Ion Component Reconnection at the Edge of an Ion-Scale Antiparallel Reconnection at the Dayside Magnetopause. *Journal of Geophysical Research: Space Physics*, **2021**, 126, e2021JA029390	2.6