

Zhong-Hua Yao

List of Publications by Year in descending order

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116
papers

2,449
citations

172207

29
h-index

264894

42
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141
all docs

141
docs citations

141
times ranked

1704
citing authors

#	ARTICLE	IF	CITATIONS
1	Astrobiology at altitude in Earth's near space. <i>Nature Astronomy</i> , 2022, 6, 289-289.	4.2	8
2	The solar wind plasma upstream of Mars observed by Tianwen-1: Comparison with Mars Express and MAVEN. <i>Science China Earth Sciences</i> , 2022, 65, 759-768.	2.3	10
3	Oxygen Ion Escape at Venus Associated With Three-Dimensional Kelvin-Helmholtz Instability. <i>Geophysical Research Letters</i> , 2022, 49, .	1.5	7
4	Jupiter's X-Ray and UV Dark Polar Region. <i>Geophysical Research Letters</i> , 2022, 49, .	1.5	6
5	Statistics of Water-group Band Ion Cyclotron Waves in Saturn's Inner Magnetosphere Based on 13 yr of Cassini Measurements. <i>Astrophysical Journal</i> , 2022, 932, 56.	1.6	3
6	Earth Wind as a Possible Exogenous Source of Lunar Surface Hydration. <i>Astrophysical Journal Letters</i> , 2021, 907, L32.	3.0	18
7	Morphology of Jupiter's Polar Auroral Bright Spot Emissions via Juno's UVS Observations. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028586.	0.8	5
8	A Statistical Survey of Low-Frequency Magnetic Fluctuations at Saturn. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028387.	0.8	5
9	A Possible Mechanism on the Detachment Between a Subauroral Proton Arc and the Auroral Oval. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028493.	0.8	6
10	Are Dawn Storms Jupiter's Auroral Substorms?. <i>AGU Advances</i> , 2021, 2, e2020AV000275.	2.3	25
11	A Low Signal Detection of X-Rays From Uranus. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028739.	0.8	8
12	Automatic Scheduling Tool for Balloon-Borne Planetary Optical Remote Sensing. <i>Remote Sensing</i> , 2021, 13, 1291.	1.8	1
13	Ultralow-Frequency Waves in Driving Jovian Aurorae Revealed by Observations From HST and Juno. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL091579.	1.5	13
14	How Jupiter's unusual magnetospheric topology structures its aurora. <i>Science Advances</i> , 2021, 7, .	4.7	31
15	Observation of Periodic Rising and Falling Tone ECH Waves at Saturn. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL094559.	1.5	5
16	Betatron Cooling of Electrons in Martian Magnetotail. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL093826.	1.5	12
17	Statistical Characteristics of Giant Undulations During Geomagnetic Storms. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL093098.	1.5	5
18	Revealing the source of Jupiter's x-ray auroral flares. <i>Science Advances</i> , 2021, 7, .	4.7	25

#	ARTICLE	IF	CITATIONS
19	Jupiter's Double-Arc Aurora as a Signature of Magnetic Reconnection: Simultaneous Observations From HST and Juno. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL093964.	1.5	3
20	Jupiter's X-ray aurora during UV dawn storms and injections as observed by XMM-Newton, Hubble, and Hisaki. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 507, 1216-1228.	1.6	7
21	A Rotating Azimuthally Distributed Auroral Current System on Saturn Revealed by the Cassini Spacecraft. <i>Astrophysical Journal Letters</i> , 2021, 919, L25.	3.0	3
22	Statistical properties of kinetic-scale magnetic holes in terrestrial space. <i>Earth and Planetary Physics</i> , 2021, 5, 63-72.	0.4	13
23	Low-frequency Whistler Waves Modulate Electrons and Generate Higher-frequency Whistler Waves in the Solar Wind. <i>Astrophysical Journal</i> , 2021, 923, 216.	1.6	7
24	Properties of Plasmoids Observed in Saturn's Dayside and Nightside Magnetodisc. <i>Geophysical Research Letters</i> , 2021, 48, .	1.5	2
25	Propagating and Dynamic Properties of Magnetic Dips in the Dayside Magnetosheath: MMS Observations. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA026736.	0.8	22
26	Kinetic-scale Flux Rope in the Magnetosheath Boundary Layer. <i>Astrophysical Journal</i> , 2020, 897, 137.	1.6	16
27	Six Pieces of Evidence Against the Corotation Enforcement Theory to Explain the Main Aurora at Jupiter. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2020JA028152.	0.8	23
28	Jupiter's X-ray Emission During the 2007 Solar Minimum. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA027219.	0.8	17
29	Reconnection- and Dipolarization-Driven Auroral Dawn Storms and Injections. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA027663.	0.8	27
30	An Enhancement of Jupiter's Main Auroral Emission and Magnetospheric Currents. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2020JA027904.	0.8	13
31	Comparisons Between Jupiter's X-ray, UV and Radio Emissions and In-situ Solar Wind Measurements During 2007. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA027222.	0.8	24
32	Unusual Location of the Geotail Magnetopause Near Lunar Orbit: A Case Study. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA027401.	0.8	8
33	Upstream proton cyclotron waves: occurrence and amplitude dependence on IMF cone angle at Mars from MAVEN observations. <i>Earth and Planetary Physics</i> , 2020, 4, 1-11.	0.4	8
34	Temporal and Spectral Studies by XMM-Newton of Jupiter's X-ray Auroras During a Compression Event. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA027676.	0.8	20
35	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.	1.5	11
36	Plasmopause surface wave oscillates the magnetosphere and diffuse aurora. <i>Nature Communications</i> , 2020, 11, 1668.	5.8	35

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37	Concurrent Observations Of Magnetic Reconnection From Cluster, IMAGE and SuperDARN: A Comparison Of Reconnection Rates And Energy Conversion. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027264.	0.8	3
38	A Long-Lasting Auroral Spiral Rotating Around Saturn's Pole. Geophysical Research Letters, 2020, 47, e2020GL088810.	1.5	4
39	Electron Energization and Energy Dissipation in Microscale Electromagnetic Environments. Astrophysical Journal Letters, 2020, 899, L31.	3.0	10
40	Auroral Beads at Saturn and the Driving Mechanism: Cassini Proximal Orbits. Astrophysical Journal Letters, 2019, 885, L16.	3.0	10
41	On the Relation Between Jovian Aurorae and the Loading/Unloading of the Magnetic Flux: Simultaneous Measurements From Juno, Hubble Space Telescope, and Hisaki. Geophysical Research Letters, 2019, 46, 11632-11641.	1.5	32
42	Electron Mirror-mode Structure: Magnetospheric Multiscale Observations. Astrophysical Journal Letters, 2019, 881, L31.	3.0	27
43	Long-standing Small-scale Reconnection Processes at Saturn Revealed by Cassini. Astrophysical Journal Letters, 2019, 884, L14.	3.0	4
44	The Dynamics of Saturn's Main Aurorae. Geophysical Research Letters, 2019, 46, 10283-10294.	1.5	12
45	Observations of Continuous Quasiperiodic Auroral Pulsations on Saturn in High Time-Resolution UV Auroral Imagery. Journal of Geophysical Research: Space Physics, 2019, 124, 2451-2465.	0.8	12
46	On the Origin of Perpendicular Ion Anisotropy Inside Dipolarizing Flux Bundles. Journal of Geophysical Research: Space Physics, 2019, 124, 4009-4021.	0.8	3
47	Small-Scale Aurora Associated With Magnetospheric Flow Vortices After a Solar Wind Dynamic Pressure Decrease. Journal of Geophysical Research: Space Physics, 2019, 124, 3303-3311.	0.8	5
48	Evolution of the Subauroral Polarization Stream Oscillations During the Severe Geomagnetic Storm on 20 November 2003. Geophysical Research Letters, 2019, 46, 599-607.	1.5	6
49	Varied Types of Subauroral Polarization Streams. , 2019, , .		0
50	Contemporaneous Observations of Jovian Energetic Auroral Electrons and Ultraviolet Emissions by the Juno Spacecraft. Journal of Geophysical Research: Space Physics, 2019, 124, 8298-8317.	0.8	22
51	A three-dimensional model of spiral null pair to form ion-scale flux ropes in magnetic reconnection region observed by Cluster. Physics of Plasmas, 2019, 26, 112901.	0.7	4
52	Waves in Kinetic-Scale Magnetic Dips: MMS Observations in the Magnetosheath. Geophysical Research Letters, 2019, 46, 523-533.	1.5	49
53	Magnetospheric Multiscale Observations of Electron Scale Magnetic Peak. Geophysical Research Letters, 2018, 45, 527-537.	1.5	33
54	China's roadmap for planetary exploration. Nature Astronomy, 2018, 2, 346-348.	4.2	33

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55	Jupiter's Aurora Observed With HST During Juno Orbits 3 to 7. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 3299-3319.	0.8	53
56	Reconnection Acceleration in Saturn's Dayside Magnetodisk: A Multicase Study with Cassini. <i>Astrophysical Journal Letters</i> , 2018, 868, L23.	3.0	15
57	Auroral Storm and Polar Arcs at Saturn's Final Cassini/LVIS Auroral Observations. <i>Geophysical Research Letters</i> , 2018, 45, 6832-6842.	1.5	10
58	Recurrent Magnetic Dipolarization at Saturn: Revealed by Cassini. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 8502-8517.	0.8	14
59	Electron Dynamics in Magnetosheath Mirror-Mode Structures. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 5561-5570.	0.8	33
60	Rotationally driven magnetic reconnection in Saturn's dayside. <i>Nature Astronomy</i> , 2018, 2, 640-645.	4.2	32
61	Suprathermal electron acceleration in the near-Earth flow rebound region. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 594-604.	0.8	45
62	Observations of kinetic-size magnetic holes in the magnetosheath. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 1990-2000.	0.8	70
63	A direct examination of the dynamics of dipolarization fronts using MMS. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 4335-4347.	0.8	44
64	Broadband high-frequency waves detected at dipolarization fronts. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 4299-4307.	0.8	49
65	The independent pulsations of Jupiter's northern and southern X-ray auroras. <i>Nature Astronomy</i> , 2017, 1, 758-764.	4.2	49
66	Simultaneous Remote Observations of Intense Reconnection Effects by DMSP and MMS Spacecraft During a Storm Time Substorm. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 10891-10909.	0.8	17
67	An explanation of auroral intensification during the substorm expansion phase. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 8560-8576.	0.8	10
68	MESSENGER observations of the energization and heating of protons in the near-Mercury magnetotail. <i>Geophysical Research Letters</i> , 2017, 44, 8149-8158.	1.5	27
69	The effects of bursty bulk flows on global-scale current systems. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 6139-6149.	0.8	35
70	Two fundamentally different drivers of dipolarizations at Saturn. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 4348-4356.	0.8	22
71	Auroral streamer and its role in driving wave-like pre-onset aurora. <i>Geoscience Letters</i> , 2017, 4, 8.	1.3	10
72	Mechanisms of Saturn's Near-Noon Transient Aurora: In Situ Evidence From Cassini Measurements. <i>Geophysical Research Letters</i> , 2017, 44, 11,217.	1.5	10

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73	Corotating Magnetic Reconnection Site in Saturn's Magnetosphere. <i>Astrophysical Journal Letters</i> , 2017, 846, L25.	3.0	23
74	Plasma Sheet Pressure Variations in the Near-Earth Magnetotail During Substorm Growth Phase: THEMIS Observations. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 12,212.	0.8	22
75	Dawn Auroral Breakup at Saturn Initiated by Auroral Arcs: UVIS/Cassini Beginning of Grand Finale Phase. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 12,111.	0.8	8
76	Using ultra-low frequency waves and their characteristics to diagnose key physics of substorm onset. <i>Geoscience Letters</i> , 2017, 4, 23.	1.3	8
77	Introduction to the thematic series "Coupling of the magnetosphere-ionosphere system". <i>Geoscience Letters</i> , 2017, 4, .	1.3	1
78	Observations of loading-unloading process at Saturn's distant magnetotail. <i>Earth and Planetary Physics</i> , 2017, 1, 53-57.	0.4	5
79	Magnetospheric vortices and their global effect after a solar wind dynamic pressure decrease. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 1071-1077.	0.8	21
80	Substructures within a dipolarization front revealed by high-temporal resolution Cluster observations. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 5185-5202.	0.8	9
81	Propagation of small size magnetic holes in the magnetospheric plasma sheet. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 5510-5519.	0.8	30
82	Coalescence of magnetic flux ropes observed in the tailward high-speed flows. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 10,898.	0.8	16
83	Electron acceleration associated with the magnetic flux pileup regions in the near-Earth plasma sheet: A multicase study. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 4331-4342.	0.8	15
84	First in situ evidence of electron pitch angle scattering due to magnetic field line curvature in the ion diffusion region. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 4103-4110.	0.8	15
85	<i>In-situ</i> observations of flux ropes formed in association with a pair of spiral nulls in magnetotail plasmas. <i>Physics of Plasmas</i> , 2016, 23, .	0.7	11
86	THEMIS statistical study on the plasma properties of high-speed flows in Earth's magnetotail. <i>Science China Earth Sciences</i> , 2016, 59, 548-555.	2.3	2
87	Evolution of clustered magnetic nulls in a turbulent-like reconnection region in the magnetotail. <i>Science Bulletin</i> , 2016, 61, 1145-1150.	4.3	6
88	MESSENGER observations of magnetospheric substorm activity in Mercury's near magnetotail. <i>Geophysical Research Letters</i> , 2015, 42, 3692-3699.	1.5	50
89	Transpolar arc observation after solar wind entry into the high-latitude magnetosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 3525-3534.	0.8	18
90	A physical explanation for the magnetic decrease ahead of dipolarization fronts. <i>Annales Geophysicae</i> , 2015, 33, 1301-1309.	0.6	40

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91	Magnetic mapping effects of substorm currents leading to auroral poleward expansion and equatorward retreat. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 253-265.	0.8	18
92	Cross-tail expansion of dipolarizing flux bundles. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 2516-2530.	0.8	32
93	Comparison of formulas for resonant interactions between energetic electrons and oblique whistler-mode waves. <i>Physics of Plasmas</i> , 2015, 22, 052902.	0.7	15
94	A case study of high speed flow of high density. , 2014, , .		0
95	Pressure gradient evolution in the near-Earth magnetotail at the arrival of BBFs. <i>Science Bulletin</i> , 2014, 59, 4804-4808.	1.7	4
96	Braking of high-speed flows in the magnetotail: THEMIS joint observations. <i>Science Bulletin</i> , 2014, 59, 326-334.	1.7	7
97	Current reduction in a pseudo-breakup event: THEMIS observations. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 8178-8187.	0.8	15
98	THEMIS observation of a magnetotail current sheet flapping wave. <i>Science Bulletin</i> , 2014, 59, 154-161.	1.7	14
99	Electric fields associated with dipolarization fronts. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 5272-5278.	0.8	33
100	Interactions between magnetosonic waves and radiation belt electrons: Comparisons of quasi-linear calculations with test particle simulations. <i>Geophysical Research Letters</i> , 2014, 41, 4828-4834.	1.5	73
101	Solar wind pressure pulse-driven magnetospheric vortices and their global consequences. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 4274-4280.	0.8	61
102	The current system associated with the boundary of plasma bubbles. <i>Geophysical Research Letters</i> , 2014, 41, 8169-8175.	1.5	13
103	Chang'e-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.	0.9	7
104	Coordinated THEMIS spacecraft and all-sky imager observations of interplanetary shock effects on plasma sheet flow bursts, poleward boundary intensifications, and streamers. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 3346-3356.	0.8	16
105	Separator reconnection with antiparallel/component features observed in magnetotail plasmas. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 6116-6126.	0.8	23
106	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.	0.8	59
107	Current structures associated with dipolarization fronts. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 6980-6985.	0.8	61
108	On the role of pressure and flow perturbations around dipolarizing flux bundles. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 7104-7118.	0.8	66

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109	Field-aligned currents associated with dipolarization fronts. <i>Geophysical Research Letters</i> , 2013, 40, 4503-4508.	1.5	53
110	THEMIS observations of electron acceleration associated with the evolution of substorm dipolarization in the near-Earth tail. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 4237-4247.	0.8	21
111	Conjugate observations of flow diversion in the magnetotail and auroral arc extension in the ionosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 4811-4816.	0.8	18
112	Mechanism of substorm current wedge formation: THEMIS observations. <i>Geophysical Research Letters</i> , 2012, 39, .	1.5	75
113	THEMIS observations of substorms on 26 February 2008 initiated by magnetotail reconnection. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	44
114	Fluxes of nitrous oxide, methane and carbon dioxide during freezing-thawing cycles in an Inner Mongolian steppe. <i>Plant and Soil</i> , 2008, 308, 105-117.	1.8	103
115	Importance of point sources on regional nitrous oxide fluxes in semi-arid steppe of Inner Mongolia, China. <i>Plant and Soil</i> , 2007, 296, 209-226.	1.8	39
116	Optical Remote Sensing of Planetary Space Environment. , 0, , .		1