

Xiao-Jia Zhang

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90
papers

1,609
citations

23
h-index

37
g-index

101
ext. papers

2,129
ext. citations

3.5
avg, IF

4.82
L-index

#	Paper	IF	Citations
90	A THEMIS multicasestudy of dipolarization fronts in the magnetotail plasma sheet. <i>Journal of Geophysical Research</i> , 2011 , 116,		263
89	Origins of the Earth's Diffuse Auroral Precipitation. <i>Space Science Reviews</i> , 2016 , 200, 205-259	7.5	92
88	Current structures associated with dipolarization fronts. <i>Journal of Geophysical Research: Space Physics</i> , 2013 , 118, 6980-6985	2.6	55
87	Radiation belt electron acceleration during the 17 March 2015 geomagnetic storm: Observations and simulations. <i>Journal of Geophysical Research: Space Physics</i> , 2016 , 121, 5520-5536	2.6	52
86	Current carriers near dipolarization fronts in the magnetotail: A THEMIS event study. <i>Journal of Geophysical Research</i> , 2011 , 116,		50
85	Dipolarizing flux bundles in the cis-geosynchronous magnetosphere: Relationship between electric fields and energetic particle injections. <i>Journal of Geophysical Research: Space Physics</i> , 2016 , 121, 1362-1376	2.6	47
84	Predominance of ECH wave contribution to diffuse aurora in Earth's outer magnetosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2015 , 120, 295-309	2.6	44
83	Direct evidence for EMIC wave scattering of relativistic electrons in space. <i>Journal of Geophysical Research: Space Physics</i> , 2016 , 121, 6620-6631	2.6	44
82	Nonresonant interactions of electromagnetic ion cyclotron waves with relativistic electrons. <i>Journal of Geophysical Research: Space Physics</i> , 2016 , 121, 9913-9925	2.6	44
81	Global distribution of electrostatic electron cyclotron harmonic waves observed on THEMIS. <i>Geophysical Research Letters</i> , 2011 , 38, n/a-n/a	4.9	42
80	Statistical distribution of EMIC wave spectra: Observations from Van Allen Probes. <i>Geophysical Research Letters</i> , 2016 , 43, 12,348	4.9	40
79	Properties of Intense Field-Aligned Lower-Band Chorus Waves: Implications for Nonlinear Wave-Particle Interactions. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 5379-5393	2.6	37
78	Magnetotail reconnection onset caused by electron kinetics with a strong external driver. <i>Nature Communications</i> , 2020 , 11, 5049	17.4	37
77	A direct examination of the dynamics of dipolarization fronts using MMS. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 4335-4347	2.6	36
76	Electron Nonlinear Resonant Interaction With Short and Intense Parallel Chorus Wave Packets. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 4979-4999	2.6	35
75	Simulation of energy-dependent electron diffusion processes in the Earth's outer radiation belt. <i>Journal of Geophysical Research: Space Physics</i> , 2016 , 121, 4217-4231	2.6	34
74	Energetic Electron Precipitation: Multievent Analysis of Its Spatial Extent During EMIC Wave Activity. <i>Journal of Geophysical Research: Space Physics</i> , 2019 , 124, 2466-2483	2.6	31

73	On the relationship of electrostatic cyclotron harmonic emissions with electron injections and dipolarization fronts. <i>Journal of Geophysical Research: Space Physics</i> , 2014 , 119, 2536-2549	2.6	30
72	Nonlinear Electron Interaction With Intense Chorus Waves: Statistics of Occurrence Rates. <i>Geophysical Research Letters</i> , 2019 , 46, 7182-7190	4.9	29
71	Kinetics of sub-ion scale magnetic holes in the near-Earth plasma sheet. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 10,304-10,317	2.6	27
70	Contemporaneous EMIC and whistler mode waves: Observations and consequences for MeV electron loss. <i>Geophysical Research Letters</i> , 2017 , 44, 8113-8121	4.9	26
69	Evolution of Electron Distribution Driven by Nonlinear Resonances With Intense Field-Aligned Chorus Waves. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 8149-8169	2.6	26
68	Periodic Excitation of Chorus and ECH Waves Modulated by Ultralow Frequency Compressions. <i>Journal of Geophysical Research: Space Physics</i> , 2019 , 124, 8535-8550	2.6	23
67	The Hall Electric Field in Earth's Magnetotail Thin Current Sheet. <i>Journal of Geophysical Research: Space Physics</i> , 2019 , 124, 1052-1062	2.6	20
66	Understanding the Driver of Energetic Electron Precipitation Using Coordinated Multisatellite Measurements. <i>Geophysical Research Letters</i> , 2018 , 45, 6755-6765	4.9	20
65	Statistical Properties of Sub-Ion Magnetic Holes in the Dipolarized Magnetotail: Formation, Structure, and Dynamics. <i>Journal of Geophysical Research: Space Physics</i> , 2019 , 124, 342-359	2.6	20
64	Extent of ECH wave emissions in the Earth's magnetotail. <i>Journal of Geophysical Research: Space Physics</i> , 2014 , 119, 5561-5574	2.6	19
63	Phase Decoherence Within Intense Chorus Wave Packets Constrains the Efficiency of Nonlinear Resonant Electron Acceleration. <i>Geophysical Research Letters</i> , 2020 , 47, e2020GL089807	4.9	18
62	The ELFIN Mission. <i>Space Science Reviews</i> , 2020 , 216, 103	7.5	17
61	Modeling of Bouncing Electron Microbursts Induced by Ducted Chorus Waves. <i>Geophysical Research Letters</i> , 2020 , 47, e2020GL089400	4.9	17
60	Rapid Frequency Variations Within Intense Chorus Wave Packets. <i>Geophysical Research Letters</i> , 2020 , 47, e2020GL088853	4.9	15
59	Ultralow Frequency Waves Deep Inside the Inner Magnetosphere Driven by Dipolarizing Flux Bundles. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 10,112-10,128	2.6	14
58	Physical mechanism causing rapid changes in ultrarelativistic electron pitch angle distributions right after a shock arrival: Evaluation of an electron dropout event. <i>Journal of Geophysical Research: Space Physics</i> , 2016 , 121, 8300-8316	2.6	14
57	Quasi-steady, marginally unstable electron cyclotron harmonic wave amplitudes. <i>Journal of Geophysical Research: Space Physics</i> , 2013 , 118, 3165-3172	2.6	14
56	Electron Cyclotron Harmonic Wave Instability by Loss Cone Distribution. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 9035-9044	2.6	14

55	Global Survey of Plasma Sheet Electron Precipitation due to Whistler Mode Chorus Waves in Earth's Magnetosphere. <i>Geophysical Research Letters</i> , 2020 , 47, e2020GL088798	4.9	13
54	Understanding the Origin of Jupiter's Diffuse Aurora Using Juno's First Perijove Observations. <i>Geophysical Research Letters</i> , 2017 , 44, 10,162-10,170	4.9	12
53	Statistics of Extreme Time-Integrated Geomagnetic Activity. <i>Geophysical Research Letters</i> , 2018 , 45, 502-510	4.9	12
52	Wavenumber Analysis of EMIC Waves. <i>Geophysical Research Letters</i> , 2019 , 46, 5689-5697	4.9	11
51	Precipitation of MeV and Sub-MeV Electrons Due to Combined Effects of EMIC and ULF Waves. <i>Journal of Geophysical Research: Space Physics</i> , 2019 , 124, 7923-7935	2.6	11
50	Impact of Significant Time-Integrated Geomagnetic Activity on 2-MeV Electron Flux. <i>Journal of Geophysical Research: Space Physics</i> , 2019 , 124, 4445-4461	2.6	9
49	Global Distribution of Whistler Mode Waves in Jovian Inner Magnetosphere. <i>Geophysical Research Letters</i> , 2020 , 47, e2020GL088198	4.9	9
48	Plasma Anisotropies and Currents in the Near-Earth Plasma Sheet and Inner Magnetosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 5625-5639	2.6	9
47	The Evolution of a Pitch-Angle Bite-Out Scattering Signature Caused by EMIC Wave Activity: A Case Study. <i>Journal of Geophysical Research: Space Physics</i> , 2019 , 124, 5042-5055	2.6	8
46	Generation of Realistic Short Chorus Wave Packets. <i>Geophysical Research Letters</i> , 2021 , 48, e2020GL092178	4.9	8
45	Field-Aligned Currents Originating From the Magnetic Reconnection Region: Conjugate MMS-ARTEMIS Observations. <i>Geophysical Research Letters</i> , 2018 , 45, 5836-5844	4.9	7
44	Decay of Ultrarelativistic Remnant Belt Electrons Through Scattering by Plasmaspheric Hiss. <i>Journal of Geophysical Research: Space Physics</i> , 2019 , 124, 5222-5233	2.6	7
43	Modulation of Whistler Waves by Ultra-Low-Frequency Perturbations: The Importance of Magnetopause Location. <i>Journal of Geophysical Research: Space Physics</i> , 2020 , 125, e2020JA028334	2.6	7
42	Electron butterfly distributions at particular magnetic latitudes observed during Juno's perijove pass. <i>Geophysical Research Letters</i> , 2017 , 44, 4489-4496	4.9	6
41	Ion Anisotropy in Earth's Magnetotail Current Sheet: Multicomponent Ion Population. <i>Journal of Geophysical Research: Space Physics</i> , 2019 , 124, 3454-3467	2.6	6
40	Potential Evidence of Low-Energy Electron Scattering and Ionospheric Precipitation by Time Domain Structures. <i>Geophysical Research Letters</i> , 2020 , 47, e2020GL089138	4.9	6
39	Ionosphere Feedback to Electron Scattering by Equatorial Whistler Mode Waves. <i>Journal of Geophysical Research: Space Physics</i> , 2020 , 125, e2020JA028373	2.6	6
38	Long-term dynamics driven by resonant wave-particle interactions: from Hamiltonian resonance theory to phase space mapping. <i>Journal of Plasma Physics</i> , 2021 , 87,	2.7	6

37	Global Survey of Electron Precipitation due to Hiss Waves in the Earth's Plasmasphere and Plumes. <i>Journal of Geophysical Research: Space Physics</i> , 2021 , 126, e2021JA029644	2.6	6
36	Electron Microbursts Induced by Nonducted Chorus Waves. <i>Frontiers in Astronomy and Space Sciences</i> , 2021 , 8,	3.8	6
35	Juno Observations of Heavy Ion Energization During Transient Dipolarizations in Jupiter Magnetotail. <i>Journal of Geophysical Research: Space Physics</i> , 2020 , 125, e2020JA027933	2.6	5
34	An Event Study of Simultaneous Earthward and Tailward Reconnection Exhaust Flows in the Earth's Midtail. <i>Journal of Geophysical Research: Space Physics</i> , 2020 , 125, e2019JA027406	2.6	5
33	Electron Lifetimes and Diffusion Rates Inferred From ELFIN Measurements at Low Altitude: First Results. <i>Journal of Geophysical Research: Space Physics</i> , 2021 , 126, e2021JA029757	2.6	5
32	Fine Structure of Chorus Wave Packets: Comparison Between Observations and Wave Generation Models. <i>Journal of Geophysical Research: Space Physics</i> , 2021 , 126, e2021JA029330	2.6	5
31	Global and local processes of thin current sheet formation during substorm growth phase. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2021 , 220, 105671	2	5
30	Ionospheric Outflow During the Substorm Growth Phase: THEMIS Observations of Oxygen Ions at the Plasma Sheet Boundary. <i>Journal of Geophysical Research: Space Physics</i> , 2020 , 125, e2019JA027612	2.6	4
29	Plasma Sheet Boundary Layer in Jupiter's Magnetodisk as Observed by Juno. <i>Journal of Geophysical Research: Space Physics</i> , 2020 , 125, e2020JA027957	2.6	4
28	Role of Ducting in Relativistic Electron Loss by Whistler-Mode Wave Scattering. <i>Journal of Geophysical Research: Space Physics</i> , 2021 , 126, e2021JA029851	2.6	4
27	Energetic Electron Scattering due to Whistler Mode Chorus Waves Using Realistic Magnetic Field and Density Models in Jupiter's Magnetosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2020 , 125, e2020JA027968	2.6	4
26	Driving of Outer Belt Electron Loss by Solar Wind Dynamic Pressure Structures: Analysis of Balloon and Satellite Data. <i>Journal of Geophysical Research: Space Physics</i> , 2020 , 125, e2020JA028097	2.6	4
25	Configuration of the Earth's Magnetotail Current Sheet. <i>Geophysical Research Letters</i> , 2021 , 48, e2020GL029153	4.9	4
24	Dependence of Relativistic Electron Precipitation in the Ionosphere on EMIC Wave Minimum Resonant Energy at the Conjugate Equator. <i>Journal of Geophysical Research: Space Physics</i> , 2021 , 126, e2021JA029193	2.6	4
23	Superfast precipitation of energetic electrons in the radiation belts of the Earth.. <i>Nature Communications</i> , 2022 , 13, 1611	17.4	4
22	Whistler Mode Waves in the Compressional Boundary of Foreshock Transients. <i>Journal of Geophysical Research: Space Physics</i> , 2020 , 125, e2019JA027758	2.6	3
21	On the Confinement of Ultrarelativistic Electron Remnant Belts to Low Shells. <i>Journal of Geophysical Research: Space Physics</i> , 2020 , 125, e2019JA027469	2.6	3
20	Why Are There so Few Reports of High-Energy Electron Drift Resonances? Role of Radial Phase Space Density Gradients. <i>Journal of Geophysical Research: Space Physics</i> , 2020 , 125, e2020JA027924	2.6	3

19	Beam-Driven Electron Cyclotron Harmonic Waves in Earth's Magnetotail. <i>Journal of Geophysical Research: Space Physics</i> , 2021 , 126, e2020JA028743	2.6	3
18	Searching for low-altitude magnetic field anomalies by using observations of the energetic particle loss cone on JUNO. <i>Geophysical Research Letters</i> , 2017 , 44, 4472-4480	4.9	2
17	Dynamical Properties of Peak and Time-Integrated Geomagnetic Events Inferred From Sample Entropy. <i>Journal of Geophysical Research: Space Physics</i> , 2020 , 125, e2019JA027599	2.6	2
16	Superposed Epoch Analyses of Electron-Driven and Proton-Driven Magnetic Dips. <i>Geophysical Research Letters</i> , 2021 , 48, e2021GL094934	4.9	2
15	Realistic Electron Diffusion Rates and Lifetimes Due to Scattering by Electron Holes. <i>Journal of Geophysical Research: Space Physics</i> , 2021 , 126, e2021JA029380	2.6	2
14	Ducted Chorus Waves Cause Sub-Relativistic and Relativistic Electron Microbursts. <i>Geophysical Research Letters</i> , 2022 , 49,	4.9	2
13	Event Studies of O+ Density Variability Within Quiet-Time Plasma Sheet. <i>Journal of Geophysical Research: Space Physics</i> , 2019 , 124, 4168-4187	2.6	1
12	Electron Flux Enhancements at L = 4.2 Observed by Global Positioning System Satellites: Relationship With Solar Wind and Geomagnetic Activity. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 6189-6206	2.6	1
11	Beam-driven ECH waves: A parametric study. <i>Physics of Plasmas</i> , 2021 , 28, 072902	2.1	1
10	Quantification of Diffuse Auroral Electron Precipitation Driven by Whistler Mode Waves at Jupiter. <i>Geophysical Research Letters</i> , 2021 , 48, e2021GL095457	4.9	1
9	Kinetic-Scale Magnetic Holes Inside Foreshock Transients. <i>Journal of Geophysical Research: Space Physics</i> , 2021 , 126, e2021JA029748	2.6	1
8	Energetic Electron Distributions Near the Magnetic Equator in the Jovian Plasma Sheet and Outer Radiation Belt Using Juno Observations. <i>Geophysical Research Letters</i> , 2021 , 48,	4.9	1
7	Electron magnetosonic waves and sub-ion magnetic holes in the magnetotail plasma. <i>Physics of Plasmas</i> , 2022 , 29, 012902	2.1	0
6	Conjugate Observation of Magnetospheric Chorus Propagating to the Ionosphere by Ducting. <i>Geophysical Research Letters</i> , 2021 , 48, e2021GL095933	4.9	0
5	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
4	Charged particle scattering in dipolarized magnetotail. <i>Physics of Plasmas</i> , 2021 , 28, 102901	2.1	0
3	Comparative Study of Electric Currents and Energetic Particle Fluxes in a Solar Flare and Earth Magnetospheric Substorm. <i>Astrophysical Journal</i> , 2021 , 923, 151	4.7	0
2	Marginal stability of whistler-mode waves in plasma with multiple electron populations. <i>Physics of Plasmas</i> , 2022 , 29, 052901	2.1	0

- 1 Hot plasma effects on electron resonant scattering by electromagnetic ion cyclotron waves. *Geophysical Research Letters*, 4.9