

Xiao-Jia Zhang

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/4399691/xiao-jia-zhang-publications-by-year.pdf>

Version: 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

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	Electron magnetosonic waves and sub-ion magnetic holes in the magnetotail plasma. <i>Physics of Plasmas</i> , 2022 , 29, 012902	2.1	0
89	Ducted Chorus Waves Cause Sub-Relativistic and Relativistic Electron Microbursts. <i>Geophysical Research Letters</i> , 2022 , 49,	4.9	2
88	Superfast precipitation of energetic electrons in the radiation belts of the Earth.. <i>Nature Communications</i> , 2022 , 13, 1611	17.4	4
87	Marginal stability of whistler-mode waves in plasma with multiple electron populations. <i>Physics of Plasmas</i> , 2022 , 29, 052901	2.1	0
86	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
85	Conjugate Observation of Magnetospheric Chorus Propagating to the Ionosphere by Ducting. <i>Geophysical Research Letters</i> , 2021 , 48, e2021GL095933	4.9	0
84	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
83	Superposed Epoch Analyses of Electron-Driven and Proton-Driven Magnetic Dips. <i>Geophysical Research Letters</i> , 2021 , 48, e2021GL094934	4.9	2
82	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
81	Beam-Driven Electron Cyclotron Harmonic Waves in Earth's Magnetotail. <i>Journal of Geophysical Research: Space Physics</i> , 2021 , 126, e2020JA028743	2.6	3
80	Generation of Realistic Short Chorus Wave Packets. <i>Geophysical Research Letters</i> , 2021 , 48, e2020GL092178	4.9	8
79	Configuration of the Earth's Magnetotail Current Sheet. <i>Geophysical Research Letters</i> , 2021 , 48, e2020GL092153	4.9	1
78	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
77	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
76	Beam-driven ECH waves: A parametric study. <i>Physics of Plasmas</i> , 2021 , 28, 072902	2.1	1
75	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
74	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

73	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
72	Quantification of Diffuse Auroral Electron Precipitation Driven by Whistler Mode Waves at Jupiter. <i>Geophysical Research Letters</i> , 2021 , 48, e2021GL095457	4.9	1
71	Kinetic-Scale Magnetic Holes Inside Foreshock Transients. <i>Journal of Geophysical Research: Space Physics</i> , 2021 , 126, e2021JA029748	2.6	1
70	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
69	Electron Microbursts Induced by Nonducted Chorus Waves. <i>Frontiers in Astronomy and Space Sciences</i> , 2021 , 8,	3.8	6
68	Charged particle scattering in dipolarized magnetotail. <i>Physics of Plasmas</i> , 2021 , 28, 102901	2.1	0
67	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
66	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
65	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
64	Global Distribution of Whistler Mode Waves in Jovian Inner Magnetosphere. <i>Geophysical Research Letters</i> , 2020 , 47, e2020GL088198	4.9	9
63	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
62	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
61	Whistler Mode Waves in the Compressional Boundary of Foreshock Transients. <i>Journal of Geophysical Research: Space Physics</i> , 2020 , 125, e2019JA027758	2.6	3
60	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
59	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
58	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
57	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
56	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

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	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
53	Rapid Frequency Variations Within Intense Chorus Wave Packets. <i>Geophysical Research Letters</i> , 2020 , 47, e2020GL088853	4.9	15
52	The ELFIN Mission. <i>Space Science Reviews</i> , 2020 , 216, 103	7.5	17
51	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
50	Magnetotail reconnection onset caused by electron kinetics with a strong external driver. <i>Nature Communications</i> , 2020 , 11, 5049	17.4	37
49	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
48	Modeling of Bouncing Electron Microbursts Induced by Ducted Chorus Waves. <i>Geophysical Research Letters</i> , 2020 , 47, e2020GL089400	4.9	17
47	Ionosphere Feedback to Electron Scattering by Equatorial Whistler Mode Waves. <i>Journal of Geophysical Research: Space Physics</i> , 2020 , 125, e2020JA028373	2.6	6
46	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
45	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
44	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
43	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
42	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
41	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
40	Wavenumber Analysis of EMIC Waves. <i>Geophysical Research Letters</i> , 2019 , 46, 5689-5697	4.9	11
39	Nonlinear Electron Interaction With Intense Chorus Waves: Statistics of Occurrence Rates. <i>Geophysical Research Letters</i> , 2019 , 46, 7182-7190	4.9	29
38	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

37	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
36	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
35	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
34	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
33	Statistics of Extreme Time-Integrated Geomagnetic Activity. <i>Geophysical Research Letters</i> , 2018 , 45, 502-510	4.9	12
32	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
31	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
30	Understanding the Driver of Energetic Electron Precipitation Using Coordinated Multisatellite Measurements. <i>Geophysical Research Letters</i> , 2018 , 45, 6755-6765	4.9	20
29	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
28	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
27	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
26	Electron Cyclotron Harmonic Wave Instability by Loss Cone Distribution. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 9035-9044	2.6	14
25	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
24	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
23	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
22	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
21	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
20	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

19	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
18	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
17	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
16	Origins of the Earth's Diffuse Auroral Precipitation. <i>Space Science Reviews</i> , 2016 , 200, 205-259	7.5	92
15	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
14	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
13	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
12	Statistical distribution of EMIC wave spectra: Observations from Van Allen Probes. <i>Geophysical Research Letters</i> , 2016 , 43, 12,348	4.9	40
11	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
10	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
9	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
8	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
7	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
6	Current structures associated with dipolarization fronts. <i>Journal of Geophysical Research: Space Physics</i> , 2013 , 118, 6980-6985	2.6	55
5	Quasi-steady, marginally unstable electron cyclotron harmonic wave amplitudes. <i>Journal of Geophysical Research: Space Physics</i> , 2013 , 118, 3165-3172	2.6	14
4	Current carriers near dipolarization fronts in the magnetotail: A THEMIS event study. <i>Journal of Geophysical Research</i> , 2011 , 116,		50
3	A THEMIS multicase study of dipolarization fronts in the magnetotail plasma sheet. <i>Journal of Geophysical Research</i> , 2011 , 116,		263
2	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

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