

# Jiang Liu

## List of Publications by Citations

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70  
papers

1,739  
citations

22  
h-index

40  
g-index

78  
ext. papers

2,015  
ext. citations

3.4  
avg, IF

4.57  
L-index

#	Paper	IF	Citations
70	On the current sheets surrounding dipolarizing flux bundles in the magnetotail: The case for wedgelets. <i>Journal of Geophysical Research: Space Physics</i> , <b>2013</b> , 118, 2000-2020	2.6	231
69	First Results from the THEMIS Mission. <i>Space Science Reviews</i> , <b>2008</b> , 141, 453-476	7.5	143
68	Magnetic flux transport by dipolarizing flux bundles. <i>Journal of Geophysical Research: Space Physics</i> , <b>2014</b> , 119, 909-926	2.6	124
67	Average thermodynamic and spectral properties of plasma in and around dipolarizing flux bundles. <i>Journal of Geophysical Research: Space Physics</i> , <b>2015</b> , 120, 4369-4383	2.6	90
66	Mechanism of substorm current wedge formation: THEMIS observations. <i>Geophysical Research Letters</i> , <b>2012</b> , 39, n/a-n/a	4.9	65
65	On the role of pressure and flow perturbations around dipolarizing flux bundles. <i>Journal of Geophysical Research: Space Physics</i> , <b>2013</b> , 118, 7104-7118	2.6	60
64	Current structures associated with dipolarization fronts. <i>Journal of Geophysical Research: Space Physics</i> , <b>2013</b> , 118, 6980-6985	2.6	55
63	Observations of kinetic-size magnetic holes in the magnetosheath. <i>Journal of Geophysical Research: Space Physics</i> , <b>2017</b> , 122, 1990-2000	2.6	54
62	On the origin of pressure and magnetic perturbations ahead of dipolarization fronts. <i>Journal of Geophysical Research: Space Physics</i> , <b>2014</b> , 119, 211-220	2.6	51
61	Substorm current wedge composition by wedgelets. <i>Geophysical Research Letters</i> , <b>2015</b> , 42, 1669-1676	4.9	47
60	Field-aligned currents associated with dipolarization fronts. <i>Geophysical Research Letters</i> , <b>2013</b> , 40, 4503-4508	4.9	47
59	Dipolarizing flux bundles in the cis-geosynchronous magnetosphere: Relationship between electric fields and energetic particle injections. <i>Journal of Geophysical Research: Space Physics</i> , <b>2016</b> , 121, 1362-1376	2.6	47
58	THEMIS observations of substorms on 26 February 2008 initiated by magnetotail reconnection. <i>Journal of Geophysical Research</i> , <b>2010</b> , 115, n/a-n/a		42
57	Emergence of the active magnetotail plasma sheet boundary from transient, localized ion acceleration. <i>Journal of Geophysical Research</i> , <b>2012</b> , 117, n/a-n/a		41
56	A physical explanation for the magnetic decrease ahead of dipolarization fronts. <i>Annales Geophysicae</i> , <b>2015</b> , 33, 1301-1309	2	34
55	Modeling a force-free flux transfer event probed by multiple Time History of Events and Macroscale Interactions during Substorms (THEMIS) spacecraft. <i>Journal of Geophysical Research</i> , <b>2008</b> , 113, n/a-n/a		32
54	Electric fields associated with dipolarization fronts. <i>Journal of Geophysical Research: Space Physics</i> , <b>2014</b> , 119, 5272-5278	2.6	30

53	Whistler and Electron Firehose Instability Control of Electron Distributions in and Around Dipolarizing Flux Bundles. <i>Geophysical Research Letters</i> , <b>2018</b> , 45, 9380-9389	4.9	29
52	On the generation of magnetic dips ahead of advancing dipolarization fronts. <i>Geophysical Research Letters</i> , <b>2015</b> , 42, 4256-4262	4.9	28
51	Three-Dimensional Magnetic Reconnection With a Spatially Confined X-Line Extent: Implications for Dipolarizing Flux Bundles and the Dawn-Dusk Asymmetry. <i>Journal of Geophysical Research: Space Physics</i> , <b>2019</b> , 124, 2819-2830	2.6	24
50	Cross-tail expansion of dipolarizing flux bundles. <i>Journal of Geophysical Research: Space Physics</i> , <b>2015</b> , 120, 2516-2530	2.6	23
49	Antidipolarization fronts observed by ARTEMIS. <i>Journal of Geophysical Research: Space Physics</i> , <b>2014</b> , 119, 7181-7198	2.6	22
48	Turbulence and Particle Acceleration in Collisionless Magnetic Reconnection: Effects of Temperature Inhomogeneity across Pre-reconnection Current Sheet. <i>Astrophysical Journal</i> , <b>2019</b> , 878, 109	4.7	21
47	Superposed epoch analysis of magnetotail flux transport during substorms observed by THEMIS. <i>Journal of Geophysical Research</i> , <b>2011</b> , 116,		21
46	Identifying STEVES Magnetospheric Driver Using Conjugate Observations in the Magnetosphere and on the Ground. <i>Geophysical Research Letters</i> , <b>2019</b> , 46, 12665-12674	4.9	21
45	The Hall Electric Field in Earth's Magnetotail Thin Current Sheet. <i>Journal of Geophysical Research: Space Physics</i> , <b>2019</b> , 124, 1052-1062	2.6	20
44	THEMIS observations of the dayside traveling compression region and flows surrounding flux transfer events. <i>Geophysical Research Letters</i> , <b>2008</b> , 35,	4.9	19
43	On the current density reduction ahead of dipolarization fronts. <i>Journal of Geophysical Research: Space Physics</i> , <b>2016</b> , 121, 4269-4278	2.6	19
42	Asymmetric braking and downward deflection of dipolarization fronts: Effects of ion reflection. <i>Geophysical Research Letters</i> , <b>2014</b> , 41, 6994-7001	4.9	17
41	Acceleration of ions by electric field pulses in the inner magnetosphere. <i>Journal of Geophysical Research: Space Physics</i> , <b>2015</b> , 120, 4628-4640	2.6	17
40	Electron currents supporting the near-Earth magnetotail during current sheet thinning. <i>Geophysical Research Letters</i> , <b>2017</b> , 44, 5-11	4.9	16
39	On the Contribution of Dipolarizing Flux Bundles to the Substorm Current Wedge and to Flux and Energy Transport. <i>Journal of Geophysical Research: Space Physics</i> , <b>2019</b> , 124, 5408-5420	2.6	16
38	Conjugate observations of flow diversion in the magnetotail and auroral arc extension in the ionosphere. <i>Journal of Geophysical Research: Space Physics</i> , <b>2013</b> , 118, 4811-4816	2.6	16
37	Ultralow Frequency Waves Deep Inside the Inner Magnetosphere Driven by Dipolarizing Flux Bundles. <i>Journal of Geophysical Research: Space Physics</i> , <b>2017</b> , 122, 10,112-10,128	2.6	14
36	Current reduction in a pseudo-breakup event: THEMIS observations. <i>Journal of Geophysical Research: Space Physics</i> , <b>2014</b> , 119, 8178-8187	2.6	14

35	THEMIS observation of a substorm event on 04:35, 22 February 2008. <i>Annales Geophysicae</i> , <b>2009</b> , 27, 1831-1841	2	14
34	Contribution of ion reflection to the energy budgets of dipolarization fronts. <i>Geophysical Research Letters</i> , <b>2016</b> , 43, 493-500	4.9	14
33	Energy Transport by Whistler Waves Around Dipolarizing Flux Bundles. <i>Geophysical Research Letters</i> , <b>2019</b> , 46, 11718-11727	4.9	13
32	Flow Shears at the Poleward Boundary of Omega Bands Observed During Conjunctions of Swarm and THEMIS ASI. <i>Geophysical Research Letters</i> , <b>2018</b> , 45, 1218-1227	4.9	13
31	Ion acceleration and reflection on magnetotail antidipolarization fronts. <i>Geophysical Research Letters</i> , <b>2015</b> , 42, 9166-9175	4.9	12
30	Revised timing and onset location of two isolated substorms observed by Time History of Events and Macroscale Interactions During Substorms (THEMIS). <i>Journal of Geophysical Research</i> , <b>2011</b> , 116,		10
29	Mechanisms of Saturn's Near-Noon Transient Aurora: In Situ Evidence From Cassini Measurements. <i>Geophysical Research Letters</i> , <b>2017</b> , 44, 11,217-11,228	4.9	9
28	Interactions between H <sup>+</sup> band EMIC waves and radiation belt relativistic electrons: Comparisons of test particle simulations with quasi-linear calculations. <i>Physics of Plasmas</i> , <b>2019</b> , 26, 032901	2.1	8
27	Plasmapause surface wave oscillates the magnetosphere and diffuse aurora. <i>Nature Communications</i> , <b>2020</b> , 11, 1668	17.4	8
26	Dawnside Auroral Polarization Streams. <i>Journal of Geophysical Research: Space Physics</i> , <b>2020</b> , 125, e201916027842	16.0	8
25	Distribution of Region 1 and 2 currents in the quiet and substorm time plasma sheet from THEMIS observations. <i>Geophysical Research Letters</i> , <b>2016</b> , 43, 7813-7821	4.9	7
24	The Current System of Dipolarizing Flux Bundles and Their Role as Wedgelets in the Substorm Current Wedge. <i>Geophysical Monograph Series</i> , <b>2018</b> , 323-337	1.1	6
23	First Results from the THEMIS Mission <b>2009</b> , 453-476		6
22	Simultaneous space and ground-based observations of a plasmaspheric virtual resonance. <i>Journal of Geophysical Research: Space Physics</i> , <b>2017</b> , 122, 4190-4209	2.6	5
21	Occurrence features of simultaneous H <sup>+</sup> - and He <sup>+</sup> -band EMIC emissions in the outer radiation belt. <i>Advances in Space Research</i> , <b>2018</b> , 61, 2091-2098	2.4	5
20	Off-equatorial current-driven instabilities ahead of approaching dipolarization fronts. <i>Journal of Geophysical Research: Space Physics</i> , <b>2017</b> , 122, 5247-5260	2.6	4
19	Electromagnetic disturbances observed near the dip region ahead of dipolarization front. <i>Geophysical Research Letters</i> , <b>2016</b> , 43, 3026-3034	4.9	4
18	Characteristics of high-latitude precursor flows ahead of dipolarization fronts. <i>Journal of Geophysical Research: Space Physics</i> , <b>2017</b> , 122, 5307-5320	2.6	4

17	Braking of high-speed flows in the magnetotail: THEMIS joint observations. <i>Science Bulletin</i> , <b>2014</b> , 59, 326-334		4
16	THEMIS observations of two substorms on February 26, 2008. <i>Science China Technological Sciences</i> , <b>2010</b> , 53, 1328-1337	3.5	4
15	Magnetic reconnection in a charged, electron-dominant current sheet. <i>Physics of Plasmas</i> , <b>2020</b> , 27, 102902	2.6	4
14	Pressure gradient evolution in the near-Earth magnetotail at the arrival of BBFs. <i>Science Bulletin</i> , <b>2014</b> , 59, 4804-4808		3
13	Beam-Driven Electron Cyclotron Harmonic Waves in Earth's Magnetotail. <i>Journal of Geophysical Research: Space Physics</i> , <b>2021</b> , 126, e2020JA028743	2.6	3
12	Embedded Regions 1 and 2 Field-Aligned Currents: Newly Recognized From Low-Altitude Spacecraft Observations. <i>Journal of Geophysical Research: Space Physics</i> , <b>2021</b> , 126, e2021JA029207	2.6	3
11	Magnetotail Flux Accumulation Leads to Substorm Current Wedge Formation: A Case Study. <i>Journal of Geophysical Research: Space Physics</i> , <b>2021</b> , 126,	2.6	3
10	On the Origin of Perpendicular Ion Anisotropy Inside Dipolarizing Flux Bundles. <i>Journal of Geophysical Research: Space Physics</i> , <b>2019</b> , 124, 4009-4021	2.6	2
9	Unusual Location of the Geotail Magnetopause Near Lunar Orbit: A Case Study. <i>Journal of Geophysical Research: Space Physics</i> , <b>2020</b> , 125, e2019JA027401	2.6	2
8	Ion flux dropout observed near dipolarization front. <i>Science Bulletin</i> , <b>2014</b> , 59, 4790-4796		2
7	Geospace Plume and Its Impact on Dayside Magnetopause Reconnection Rate. <i>Journal of Geophysical Research: Space Physics</i> , <b>2021</b> , 126, e2021JA029117	2.6	2
6	Is Westward Travelling Surge Driven by the Polar Cap Flow Channels?. <i>Journal of Geophysical Research: Space Physics</i> , <b>2021</b> , 126, e2020JA028498	2.6	2
5	Radar Observations of Flows Leading to Longitudinal Expansion of Substorm Onset Over Alaska. <i>Journal of Geophysical Research: Space Physics</i> , <b>2021</b> , 126, e2020JA028148	2.6	2
4	Radar Observations of Flows Leading to Substorm Onset Over Alaska. <i>Journal of Geophysical Research: Space Physics</i> , <b>2021</b> , 126, e2020JA028147	2.6	1
3	Unsteady Magnetopause Reconnection Under Quasi-Steady Solar Wind Driving. <i>Geophysical Research Letters</i> , <b>2022</b> , 49,	4.9	0
2	Characteristics of Substorm-Onset-Related and Nonsubstorm Earthward Fast Flows and Associated Magnetic Flux Transport: THEMIS Observations. <i>Journal of Geophysical Research: Space Physics</i> , <b>2021</b> , 126, e2020JA028313	2.6	0
1	Inverse reconstruction technique based on time-dependent Petschek-type reconnection model: first application to THEMIS magnetotail observations. <i>Annales Geophysicae</i> , <b>2009</b> , 27, 4369-4377	2	