

Jiang Liu

List of Publications by Year in Descending Order

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

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 | Unsteady Magnetopause Reconnection Under Quasi-Steady Solar Wind Driving. <i>Geophysical Research Letters</i> , 2022 , 49, | 4.9 | 0 |
| 69 | 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> , 2021 , 126, e2020JA028313 | 2.6 | 0 |
| 68 | Beam-Driven Electron Cyclotron Harmonic Waves in Earth's Magnetotail. <i>Journal of Geophysical Research: Space Physics</i> , 2021 , 126, e2020JA028743 | 2.6 | 3 |
| 67 | Geospace Plume and Its Impact on Dayside Magnetopause Reconnection Rate. <i>Journal of Geophysical Research: Space Physics</i> , 2021 , 126, e2021JA029117 | 2.6 | 2 |
| 66 | Embedded Regions 1 and 2 Field-Aligned Currents: Newly Recognized From Low-Altitude Spacecraft Observations. <i>Journal of Geophysical Research: Space Physics</i> , 2021 , 126, e2021JA029207 | 2.6 | 3 |
| 65 | Is Westward Travelling Surge Driven by the Polar Cap Flow Channels?. <i>Journal of Geophysical Research: Space Physics</i> , 2021 , 126, e2020JA028498 | 2.6 | 2 |
| 64 | Magnetotail Flux Accumulation Leads to Substorm Current Wedge Formation: A Case Study. <i>Journal of Geophysical Research: Space Physics</i> , 2021 , 126, | 2.6 | 3 |
| 63 | Radar Observations of Flows Leading to Longitudinal Expansion of Substorm Onset Over Alaska. <i>Journal of Geophysical Research: Space Physics</i> , 2021 , 126, e2020JA028148 | 2.6 | 2 |
| 62 | Radar Observations of Flows Leading to Substorm Onset Over Alaska. <i>Journal of Geophysical Research: Space Physics</i> , 2021 , 126, e2020JA028147 | 2.6 | 1 |
| 61 | Unusual Location of the Geotail Magnetopause Near Lunar Orbit: A Case Study. <i>Journal of Geophysical Research: Space Physics</i> , 2020 , 125, e2019JA027401 | 2.6 | 2 |
| 60 | Plasmapause surface wave oscillates the magnetosphere and diffuse aurora. <i>Nature Communications</i> , 2020 , 11, 1668 | 17.4 | 8 |
| 59 | Magnetic reconnection in a charged, electron-dominant current sheet. <i>Physics of Plasmas</i> , 2020 , 27, 102902 | 2.6 | 4 |
| 58 | Dawnside Auroral Polarization Streams. <i>Journal of Geophysical Research: Space Physics</i> , 2020 , 125, e2019JA027842 | 2.6 | 16 |
| 57 | 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 |
| 56 | On the Origin of Perpendicular Ion Anisotropy Inside Dipolarizing Flux Bundles. <i>Journal of Geophysical Research: Space Physics</i> , 2019 , 124, 4009-4021 | 2.6 | 2 |
| 55 | 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> , 2019 , 124, 2819-2830 | 2.6 | 24 |
| 54 | Interactions between H ⁺ band EMIC waves and radiation belt relativistic electrons: Comparisons of test particle simulations with quasi-linear calculations. <i>Physics of Plasmas</i> , 2019 , 26, 032901 | 2.1 | 8 |

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| 53 | Turbulence and Particle Acceleration in Collisionless Magnetic Reconnection: Effects of Temperature Inhomogeneity across Pre-reconnection Current Sheet. <i>Astrophysical Journal</i> , 2019 , 878, 109 | 4.7 | 21 |
| 52 | Energy Transport by Whistler Waves Around Dipolarizing Flux Bundles. <i>Geophysical Research Letters</i> , 2019 , 46, 11718-11727 | 4.9 | 13 |
| 51 | 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> , 2019 , 124, 5408-5420 | 2.6 | 16 |
| 50 | Identifying STEVES Magnetospheric Driver Using Conjugate Observations in the Magnetosphere and on the Ground. <i>Geophysical Research Letters</i> , 2019 , 46, 12665-12674 | 4.9 | 21 |
| 49 | Occurrence features of simultaneous H ⁺ - and He ⁺ -band EMIC emissions in the outer radiation belt. <i>Advances in Space Research</i> , 2018 , 61, 2091-2098 | 2.4 | 5 |
| 48 | The Current System of Dipolarizing Flux Bundles and Their Role as Wedgelets in the Substorm Current Wedge. <i>Geophysical Monograph Series</i> , 2018 , 323-337 | 1.1 | 6 |
| 47 | Whistler and Electron Firehose Instability Control of Electron Distributions in and Around Dipolarizing Flux Bundles. <i>Geophysical Research Letters</i> , 2018 , 45, 9380-9389 | 4.9 | 29 |
| 46 | Flow Shears at the Poleward Boundary of Omega Bands Observed During Conjunctions of Swarm and THEMIS ASI. <i>Geophysical Research Letters</i> , 2018 , 45, 1218-1227 | 4.9 | 13 |
| 45 | Observations of kinetic-size magnetic holes in the magnetosheath. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 1990-2000 | 2.6 | 54 |
| 44 | Off-equatorial current-driven instabilities ahead of approaching dipolarization fronts. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 5247-5260 | 2.6 | 4 |
| 43 | Simultaneous space and ground-based observations of a plasmaspheric virtual resonance. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 4190-4209 | 2.6 | 5 |
| 42 | Electron currents supporting the near-Earth magnetotail during current sheet thinning. <i>Geophysical Research Letters</i> , 2017 , 44, 5-11 | 4.9 | 16 |
| 41 | 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 |
| 40 | Characteristics of high-latitude precursor flows ahead of dipolarization fronts. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 5307-5320 | 2.6 | 4 |
| 39 | Mechanisms of Saturn's Near-Noon Transient Aurora: In Situ Evidence From Cassini Measurements. <i>Geophysical Research Letters</i> , 2017 , 44, 11,217-11,228 | 4.9 | 9 |
| 38 | Distribution of Region 1 and 2 currents in the quiet and substorm time plasma sheet from THEMIS observations. <i>Geophysical Research Letters</i> , 2016 , 43, 7813-7821 | 4.9 | 7 |
| 37 | Electromagnetic disturbances observed near the dip region ahead of dipolarization front. <i>Geophysical Research Letters</i> , 2016 , 43, 3026-3034 | 4.9 | 4 |
| 36 | Contribution of ion reflection to the energy budgets of dipolarization fronts. <i>Geophysical Research Letters</i> , 2016 , 43, 493-500 | 4.9 | 14 |

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| 35 | 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 |
| 34 | On the current density reduction ahead of dipolarization fronts. <i>Journal of Geophysical Research: Space Physics</i> , 2016 , 121, 4269-4278 | 2.6 | 19 |
| 33 | Substorm current wedge composition by wedgelets. <i>Geophysical Research Letters</i> , 2015 , 42, 1669-1676 | 4.9 | 47 |
| 32 | Cross-tail expansion of dipolarizing flux bundles. <i>Journal of Geophysical Research: Space Physics</i> , 2015 , 120, 2516-2530 | 2.6 | 23 |
| 31 | Average thermodynamic and spectral properties of plasma in and around dipolarizing flux bundles. <i>Journal of Geophysical Research: Space Physics</i> , 2015 , 120, 4369-4383 | 2.6 | 90 |
| 30 | On the generation of magnetic dips ahead of advancing dipolarization fronts. <i>Geophysical Research Letters</i> , 2015 , 42, 4256-4262 | 4.9 | 28 |
| 29 | Acceleration of ions by electric field pulses in the inner magnetosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2015 , 120, 4628-4640 | 2.6 | 17 |
| 28 | Ion acceleration and reflection on magnetotail antidipolarization fronts. <i>Geophysical Research Letters</i> , 2015 , 42, 9166-9175 | 4.9 | 12 |
| 27 | A physical explanation for the magnetic decrease ahead of dipolarization fronts. <i>Annales Geophysicae</i> , 2015 , 33, 1301-1309 | 2 | 34 |
| 26 | Magnetic flux transport by dipolarizing flux bundles. <i>Journal of Geophysical Research: Space Physics</i> , 2014 , 119, 909-926 | 2.6 | 124 |
| 25 | Current reduction in a pseudo-breakup event: THEMIS observations. <i>Journal of Geophysical Research: Space Physics</i> , 2014 , 119, 8178-8187 | 2.6 | 14 |
| 24 | Electric fields associated with dipolarization fronts. <i>Journal of Geophysical Research: Space Physics</i> , 2014 , 119, 5272-5278 | 2.6 | 30 |
| 23 | On the origin of pressure and magnetic perturbations ahead of dipolarization fronts. <i>Journal of Geophysical Research: Space Physics</i> , 2014 , 119, 211-220 | 2.6 | 51 |
| 22 | Asymmetric braking and downward deflection of dipolarization fronts: Effects of ion reflection. <i>Geophysical Research Letters</i> , 2014 , 41, 6994-7001 | 4.9 | 17 |
| 21 | Antidipolarization fronts observed by ARTEMIS. <i>Journal of Geophysical Research: Space Physics</i> , 2014 , 119, 7181-7198 | 2.6 | 22 |
| 20 | Ion flux dropout observed near dipolarization front. <i>Science Bulletin</i> , 2014 , 59, 4790-4796 | | 2 |
| 19 | Pressure gradient evolution in the near-Earth magnetotail at the arrival of BBFs. <i>Science Bulletin</i> , 2014 , 59, 4804-4808 | | 3 |
| 18 | Braking of high-speed flows in the magnetotail: THEMIS joint observations. <i>Science Bulletin</i> , 2014 , 59, 326-334 | | 4 |

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| 17 | On the current sheets surrounding dipolarizing flux bundles in the magnetotail: The case for wedgelets. <i>Journal of Geophysical Research: Space Physics</i> , 2013 , 118, 2000-2020 | 2.6 | 231 |
| 16 | Current structures associated with dipolarization fronts. <i>Journal of Geophysical Research: Space Physics</i> , 2013 , 118, 6980-6985 | 2.6 | 55 |
| 15 | On the role of pressure and flow perturbations around dipolarizing flux bundles. <i>Journal of Geophysical Research: Space Physics</i> , 2013 , 118, 7104-7118 | 2.6 | 60 |
| 14 | Field-aligned currents associated with dipolarization fronts. <i>Geophysical Research Letters</i> , 2013 , 40, 4503-4508 | 4.9 | 47 |
| 13 | 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 | 2.6 | 16 |
| 12 | Emergence of the active magnetotail plasma sheet boundary from transient, localized ion acceleration. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a | | 41 |
| 11 | Mechanism of substorm current wedge formation: THEMIS observations. <i>Geophysical Research Letters</i> , 2012 , 39, n/a-n/a | 4.9 | 65 |
| 10 | Superposed epoch analysis of magnetotail flux transport during substorms observed by THEMIS. <i>Journal of Geophysical Research</i> , 2011 , 116, | | 21 |
| 9 | 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> , 2011 , 116, | | 10 |
| 8 | THEMIS observations of substorms on 26 February 2008 initiated by magnetotail reconnection. <i>Journal of Geophysical Research</i> , 2010 , 115, n/a-n/a | | 42 |
| 7 | THEMIS observations of two substorms on February 26, 2008. <i>Science China Technological Sciences</i> , 2010 , 53, 1328-1337 | 3.5 | 4 |
| 6 | Inverse reconstruction technique based on time-dependent Petschek-type reconnection model: first application to THEMIS magnetotail observations. <i>Annales Geophysicae</i> , 2009 , 27, 4369-4377 | 2 | |
| 5 | THEMIS observation of a substorm event on 04:35, 22 February 2008. <i>Annales Geophysicae</i> , 2009 , 27, 1831-1841 | 2 | 14 |
| 4 | First Results from the THEMIS Mission 2009 , 453-476 | | 6 |
| 3 | THEMIS observations of the dayside traveling compression region and flows surrounding flux transfer events. <i>Geophysical Research Letters</i> , 2008 , 35, | 4.9 | 19 |
| 2 | 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> , 2008 , 113, n/a-n/a | | 32 |
| 1 | First Results from the THEMIS Mission. <i>Space Science Reviews</i> , 2008 , 141, 453-476 | 7.5 | 143 |