

# Chengming Liu

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7039732/publications.pdf>

Version: 2024-02-01

41  
papers

1,174  
citations

331670

21  
h-index

377865

34  
g-index

41  
all docs

41  
docs citations

41  
times ranked

440  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Electron Thermalization and Electrostatic Turbulence Caused by Flow Reversal in Dipolarizing Flux Tubes. <i>Astrophysical Journal</i> , 2022, 926, 22.                                     | 4.5 | 12        |
| 2  | Cross-scale Dynamics Driven by Plasma Jet Braking in Space. <i>Astrophysical Journal</i> , 2022, 926, 198.   | 4.5 | 13        |
| 3  | Categorizing MHD Discontinuities in the Inner Heliosphere by Utilizing the PSP Mission. <i>Journal of Geophysical Research: Space Physics</i> , 2022, 127, .                               | 2.4 | 8         |
| 4  | On the Magnetic Dip Ahead of the Dipolarization Fronts. <i>Journal of Geophysical Research: Space Physics</i> , 2022, 127, .   | 2.4 | 4         |
| 5  | Observations of Whistler-mode Waves and Large-amplitude Electrostatic Waves Associated with a Dipolarization Front in the Bursty Bulk Flow. <i>Astrophysical Journal</i> , 2022, 933, 105. | 4.5 | 1         |
| 6  | Electronâ€scale Measurements of Antidipolarization Front. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL092232.  | 4.0 | 18        |
| 7  | Electron Vorticity at Dipolarization Fronts. <i>Astrophysical Journal</i> , 2021, 911, 122.  | 4.5 | 5         |
| 8  | First Observation of Magnetic Flux Rope Inside Electron Diffusion Region. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL089722.   | 4.0 | 15        |
| 9  | An Unexpected Whistler Wave Generation Around Dipolarization Front. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028957.                                      | 2.4 | 12        |
| 10 | Kinetics of Magnetic Hole Behind Dipolarization Front. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL093174.  | 4.0 | 20        |
| 11 | Characteristics of Interplanetary Discontinuities in the Inner Heliosphere Revealed by Parker Solar Probe. <i>Astrophysical Journal</i> , 2021, 916, 65.                                   | 4.5 | 14        |
| 12 | Energy Flux Densities at Dipolarization Fronts. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL094932.   | 4.0 | 10        |
| 13 | Subionâ€scale Flux Rope Nested Inside Ionâ€scale Flux Rope in Earth's Magnetotail. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL096169.  | 4.0 | 5         |
| 14 | Low-frequency Whistler Waves Modulate Electrons and Generate Higher-frequency Whistler Waves in the Solar Wind. <i>Astrophysical Journal</i> , 2021, 923, 216.                             | 4.5 | 7         |
| 15 | Magnetotail dipolarization fronts and particle acceleration: A review. <i>Science China Earth Sciences</i> , 2020, 63, 235-256.  | 5.2 | 79        |
| 16 | Extending the FOTE Method to Three-dimensional Plasma Flow Fields. <i>Astrophysical Journal, Supplement Series</i> , 2020, 249, 10.  | 7.7 | 12        |
| 17 | First Topology of Electronâ€scale Magnetic Hole. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL088374.   | 4.0 | 21        |
| 18 | First Measurements of Electrons and Waves inside an Electrostatic Solitary Wave. <i>Physical Review Letters</i> , 2020, 124, 095101.   | 7.8 | 32        |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 19 | Electron Pitch-Angle Distribution in Earth's Magnetotail: Pancake, Cigar, Isotropy, Butterfly, and Rolling Pin. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2020JA027777. | 2.4 | 21        |
| 20 | Evidence of Electron Acceleration at a Reconnecting Magnetopause. <i>Geophysical Research Letters</i> , 2019, 46, 5645-5652.  | 4.0 | 41        |
| 21 | Energetic Electron Acceleration in Unconfined Reconnection Jets. <i>Astrophysical Journal Letters</i> , 2019, 881, L8.  | 8.3 | 19        |
| 22 | Ionospheric Cold Ions Detected by MMS Behind Dipolarization Fronts. <i>Geophysical Research Letters</i> , 2019, 46, 7883-7892.  | 4.0 | 29        |
| 23 | Evidence of Magnetic Nulls in the Reconnection at Bow Shock. <i>Geophysical Research Letters</i> , 2019, 46, 10209-10218.   | 4.0 | 24        |
| 24 | Ion-Beam-Driven Intense Electrostatic Solitary Waves in Reconnection Jet. <i>Geophysical Research Letters</i> , 2019, 46, 12702-12710.  | 4.0 | 43        |
| 25 | SOTE: A Nonlinear Method for Magnetic Topology Reconstruction in Space Plasmas. <i>Astrophysical Journal, Supplement Series</i> , 2019, 244, 31.  | 7.7 | 26        |
| 26 | Anchor Point of Electron Acceleration around Dipolarization Fronts in Space Plasmas. <i>Astrophysical Journal Letters</i> , 2019, 873, L2.  | 8.3 | 34        |
| 27 | Parallel Electron Heating by Tangential Discontinuity in the Turbulent Magnetosheath. <i>Astrophysical Journal Letters</i> , 2019, 877, L16.  | 8.3 | 32        |
| 28 | Electron-Driven Dissipation in a Tailward Flow Burst. <i>Geophysical Research Letters</i> , 2019, 46, 5698-5706.  | 4.0 | 35        |
| 29 | Energy Range of Electron Rolling Pin Distribution Behind Dipolarization Front. <i>Geophysical Research Letters</i> , 2019, 46, 2390-2398.   | 4.0 | 46        |
| 30 | Evidence of Radial Nulls Near Reconnection Fronts. <i>Astrophysical Journal</i> , 2019, 871, 209.   | 4.5 | 13        |
| 31 | Electron Distribution Functions Around a Reconnection X-Line Resolved by the FOTE Method. <i>Geophysical Research Letters</i> , 2019, 46, 1195-1204.  | 4.0 | 47        |
| 32 | Electron Acceleration by Dipolarization Fronts and Magnetic Reconnection: A Quantitative Comparison. <i>Astrophysical Journal</i> , 2018, 853, 11.  | 4.5 | 59        |
| 33 | Magnetic Nulls in the Reconnection Driven by Turbulence. <i>Astrophysical Journal</i> , 2018, 852, 17.  | 4.5 | 29        |
| 34 | Electron Jet Detected by MMS at Dipolarization Front. <i>Geophysical Research Letters</i> , 2018, 45, 556-564.  | 4.0 | 75        |
| 35 | Betatron Cooling of Suprathermal Electrons in the Terrestrial Magnetotail. <i>Astrophysical Journal</i> , 2018, 866, 93.  | 4.5 | 15        |
| 36 | Electron-Scale Measurements of Dipolarization Front. <i>Geophysical Research Letters</i> , 2018, 45, 4628-4638.   | 4.0 | 77        |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 37 | Detection of Magnetic Nulls around Reconnection Fronts. <i>Astrophysical Journal</i> , 2018, 860, 128.   | 4.5 | 25        |
| 38 | Formation of dipolarization fronts after current sheet thinning. <i>Physics of Plasmas</i> , 2018, 25, .   | 1.9 | 41        |
| 39 | Suprathermal electron acceleration in the near-Earth flow rebound region. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 594-604.      | 2.4 | 45        |
| 40 | Explaining the rolling-pin distribution of suprathermal electrons behind dipolarization fronts. <i>Geophysical Research Letters</i> , 2017, 44, 6492-6499. | 4.0 | 68        |
| 41 | Rapid Pitch Angle Evolution of Suprathermal Electrons Behind Dipolarization Fronts. <i>Geophysical Research Letters</i> , 2017, 44, 10,116.                | 4.0 | 42        |