Chengming Liu

List of Publications by Year
in descending order

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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	Magnetotail dipolarization fronts and particle acceleration: A review. Science China Earth Sciences, 2020, 63, 235-256.	5.2	79
2	Electronâ€Scale Measurements of Dipolarization Front. Geophysical Research Letters, 2018, 45, 4628-4638.	4.0	77
3	Electron Jet Detected by MMS at Dipolarization Front. Geophysical Research Letters, 2018, 45, 556-564.	4.0	75
4	Explaining the rollingâ€pin distribution of suprathermal electrons behind dipolarization fronts. Geophysical Research Letters, 2017, 44, 6492-6499.	4.0	68
5	Electron Acceleration by Dipolarization Fronts and Magnetic Reconnection: A Quantitative Comparison. Astrophysical Journal, 2018, 853, 11.	4.5	59
6	Electron Distribution Functions Around a Reconnection Xâ€Line Resolved by the FOTE Method. Geophysical Research Letters, 2019, 46, 1195-1204.	4.0	47
7	Energy Range of Electron Rolling Pin Distribution Behind Dipolarization Front. Geophysical Research Letters, 2019, 46, 2390-2398.	4.0	46
8	Suprathermal electron acceleration in the nearâ€Earth flow rebounce region. Journal of Geophysical Research: Space Physics, 2017, 122, 594-604.	2.4	45
9	Ionâ€Beamâ€Driven Intense Electrostatic Solitary Waves in Reconnection Jet. Geophysical Research Letters, 2019, 46, 12702-12710.	4.0	43
10	Rapid Pitch Angle Evolution of Suprathermal Electrons Behind Dipolarization Fronts. Geophysical Research Letters, 2017, 44, 10,116.	4.0	42
11	Formation of dipolarization fronts after current sheet thinning. Physics of Plasmas, 2018, 25, .	1.9	41
12	Evidence of Electron Acceleration at a Reconnecting Magnetopause. Geophysical Research Letters, 2019, 46, 5645-5652.	4.0	41
13	Electronâ€Driven Dissipation in a Tailward Flow Burst. Geophysical Research Letters, 2019, 46, 5698-5706.	4.0	35
14	Anchor Point of Electron Acceleration around Dipolarization Fronts in Space Plasmas. Astrophysical Journal Letters, 2019, 873, L2.	8.3	34
15	Parallel Electron Heating by Tangential Discontinuity in the Turbulent Magnetosheath. Astrophysical Journal Letters, 2019, 877, L16.	8.3	32
16	First Measurements of Electrons and Waves inside an Electrostatic Solitary Wave. Physical Review Letters, 2020, 124, 095101.	7.8	32
17	Magnetic Nulls in the Reconnection Driven by Turbulence. Astrophysical Journal, 2018, 852, 17.	4.5	29
18	Ionospheric Cold Ions Detected by MMS Behind Dipolarization Fronts. Geophysical Research Letters, 2019, 46, 7883-7892.	4.0	29

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19	SOTE: A Nonlinear Method for Magnetic Topology Reconstruction in Space Plasmas. Astrophysical Journal, Supplement Series, 2019, 244, 31.	7.7	26
20	Detection of Magnetic Nulls around Reconnection Fronts. Astrophysical Journal, 2018, 860, 128.	4.5	25
21	Evidence of Magnetic Nulls in the Reconnection at Bow Shock. Geophysical Research Letters, 2019, 46, 10209-10218.	4.0	24
22	First Topology of Electronâ€Scale Magnetic Hole. Geophysical Research Letters, 2020, 47, e2020GL088374.	4.0	21
23	Electron Pitchâ€Angle Distribution in Earth's Magnetotail: Pancake, Cigar, Isotropy, Butterfly, and Rollingâ€Pin. Journal of Geophysical Research: Space Physics, 2020, 125, e2020JA027777.	2.4	21
24	Kinetics of Magnetic Hole Behind Dipolarization Front. Geophysical Research Letters, 2021, 48, e2021GL093174.	4.0	20
25	Energetic Electron Acceleration in Unconfined Reconnection Jets. Astrophysical Journal Letters, 2019, 881, L8.	8.3	19
26	Electronâ€Scale Measurements of Antidipolarization Front. Geophysical Research Letters, 2021, 48, e2020GL092232.	4.0	18
27	Betatron Cooling of Suprathermal Electrons in the Terrestrial Magnetotail. Astrophysical Journal, 2018, 866, 93.	4.5	15
28	First Observation of Magnetic Flux Rope Inside Electron Diffusion Region. Geophysical Research Letters, 2021, 48, e2020GL089722.	4.0	15
29	Characteristics of Interplanetary Discontinuities in the Inner Heliosphere Revealed by Parker Solar Probe. Astrophysical Journal, 2021, 916, 65.	4.5	14
30	Evidence of Radial Nulls Near Reconnection Fronts. Astrophysical Journal, 2019, 871, 209.	4.5	13
31	Cross-scale Dynamics Driven by Plasma Jet Braking in Space. Astrophysical Journal, 2022, 926, 198.	4.5	13
32	Extending the FOTE Method to Three-dimensional Plasma Flow Fields. Astrophysical Journal, Supplement Series, 2020, 249, 10.	7.7	12
33	An Unexpected Whistler Wave Generation Around Dipolarization Front. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA028957.	2.4	12
34	Electron Thermalization and Electrostatic Turbulence Caused by Flow Reversal in Dipolarizing Flux Tubes. Astrophysical Journal, 2022, 926, 22.	4.5	12
35	Energy Flux Densities at Dipolarization Fronts. Geophysical Research Letters, 2021, 48, e2021GL094932.	4.0	10
36	Categorizing MHD Discontinuities in the Inner Heliosphere by Utilizing the PSP Mission. Journal of Geophysical Research: Space Physics, 2022, 127, .	2.4	8

#	Article	IF	Citations
37	Low-frequency Whistler Waves Modulate Electrons and Generate Higher-frequency Whistler Waves in the Solar Wind. Astrophysical Journal, 2021, 923, 216.	4.5	7
38	Electron Vorticity at Dipolarization Fronts. Astrophysical Journal, 2021, 911, 122.	4.5	5
39	Subionâ€Scale Flux Rope Nested Inside Ionâ€Scale Flux Rope in Earth's Magnetotail. Geophysical Research Letters, 2021, 48, e2021GL096169.	4.0	5
40	On the Magnetic Dip Ahead of the Dipolarization Fronts. Journal of Geophysical Research: Space Physics, 2022, 127, .	2.4	4
41	Observations of Whistler-mode Waves and Large-amplitude Electrostatic Waves Associated with a Dipolarization Front in the Bursty Bulk Flow. Astrophysical Journal, 2022, 933, 105.	4.5	1