

San Lu

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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.

67

papers

986

citations

18

h-index

27

g-index

75

ext. papers

1,269

ext. citations

3.7

avg, IF

4.55

L-index

#	Paper	IF	Citations
67	Coalescence of magnetic flux ropes in the ion diffusion region of magnetic reconnection. <i>Nature Physics</i> , 2016 , 12, 263-267	16.2	85
66	Investigation of storm time magnetotail and ion injection using three-dimensional global hybrid simulation. <i>Journal of Geophysical Research: Space Physics</i> , 2014 , 119, 7413-7432	2.6	60
65	Suprathermal particle energization in dipolarization fronts: Particle-in-cell simulations. <i>Journal of Geophysical Research: Space Physics</i> , 2016 , 121, 9483-9500	2.6	60
64	Dipolarization fronts as earthward propagating flux ropes: A three-dimensional global hybrid simulation. <i>Journal of Geophysical Research: Space Physics</i> , 2015 , 120, 6286-6300	2.6	55
63	Magnetotail dipolarization fronts and particle acceleration: A review. <i>Science China Earth Sciences</i> , 2020 , 63, 235-256	4.6	43
62	Magnetotail reconnection onset caused by electron kinetics with a strong external driver. <i>Nature Communications</i> , 2020 , 11, 5049	17.4	37
61	Hall effect control of magnetotail dawn-dusk asymmetry: A three-dimensional global hybrid simulation. <i>Journal of Geophysical Research: Space Physics</i> , 2016 , 121, 11,882-11,895	2.6	37
60	Asymmetry in the current sheet and secondary magnetic flux ropes during guide field magnetic reconnection. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		35
59	The transfer between electron bulk kinetic energy and thermal energy in collisionless magnetic reconnection. <i>Physics of Plasmas</i> , 2013 , 20, 061203	2.1	27
58	Formation of Dawn-Dusk Asymmetry in Earth's Magnetotail Thin Current Sheet: A Three-Dimensional Particle-In-Cell Simulation. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 2801-2814	2.6	25
57	Enhancement of oxygen in the magnetic island associated with dipolarization fronts. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 185-193	2.6	23
56	Fermi acceleration of electrons inside foreshock transient cores. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 9248-9263	2.6	23
55	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
54	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
53	Ion Acceleration Inside Foreshock Transients. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 163-178	2.6	20
52	MMS Study of the Structure of Ion-Scale Flux Ropes in the Earth's Cross-Tail Current Sheet. <i>Geophysical Research Letters</i> , 2019 , 46, 6168-6177	4.9	19
51	On the current density reduction ahead of dipolarization fronts. <i>Journal of Geophysical Research: Space Physics</i> , 2016 , 121, 4269-4278	2.6	19

50	Relativistic electrons generated at Earth's quasi-parallel bow shock. <i>Science Advances</i> , 2019 , 5, eaaw1368	4.3	18
49	Externally Driven Onset of Localized Magnetic Reconnection and Disruption in a Magnetotail Configuration. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 2787-2800	2.6	18
48	Self-reinforcing process of the reconnection electric field in the electron diffusion region and onset of collisionless magnetic reconnection. <i>Plasma Physics and Controlled Fusion</i> , 2013 , 55, 085019	2	17
47	The effect of a guide field on the structures of magnetic islands formed during multiple X line reconnections: Two-dimensional particle-in-cell simulations. <i>Journal of Geophysical Research: Space Physics</i> , 2014 , 119, 798-807	2.6	16
46	The effects of the guide field on the structures of electron density depletions in collisionless magnetic reconnection. <i>Science Bulletin</i> , 2011 , 56, 48-52		16
45	Magnetic reconnection in Earth's magnetotail: Energy conversion and its earthward tailward asymmetry. <i>Physics of Plasmas</i> , 2018 , 25, 012905	2.1	15
44	Near-Earth Reconnection Ejecta at Lunar Distances. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 2736-2744	2.6	15
43	He ²⁺ dynamics and ion cyclotron waves in the downstream of quasi-perpendicular shocks: 2-D hybrid simulations. <i>Journal of Geophysical Research: Space Physics</i> , 2014 , 119, 3225-3236	2.6	15
42	Effects of Cross-Sheet Density and Temperature Inhomogeneities on Magnetotail Reconnection. <i>Geophysical Research Letters</i> , 2019 , 46, 28-36	4.9	15
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	Particle-in-cell simulations of magnetic reconnection in laser-plasma experiments on Shenguang-II facility. <i>Physics of Plasmas</i> , 2013 , 20, 112110	2.1	14
39	Evolution of flux ropes in the magnetotail: A three-dimensional global hybrid simulation. <i>Physics of Plasmas</i> , 2015 , 22, 052901	2.1	13
38	Magnetospheric Multiscale (MMS) Observations of Magnetic Reconnection in Foreshock Transients. <i>Journal of Geophysical Research: Space Physics</i> , 2020 , 125, e2020JA027822	2.6	12
37	Weibel instability and structures of magnetic island in anti-parallel collisionless magnetic reconnection. <i>Physics of Plasmas</i> , 2011 , 18, 072105	2.1	12
36	Electron dynamics in collisionless magnetic reconnection. <i>Science Bulletin</i> , 2011 , 56, 1174-1181		12
35	In situ observation of magnetic reconnection in the front of bursty bulk flow. <i>Journal of Geophysical Research: Space Physics</i> , 2014 , 119, 9952-9961	2.6	10
34	Development of Turbulent Magnetic Reconnection in a Magnetic Island. <i>Astrophysical Journal</i> , 2017 , 835, 245	4.7	9
33	Formation of high-speed electron jets as the evidence for magnetic reconnection in laser-produced plasma. <i>Physics of Plasmas</i> , 2017 , 24, 041406	2.1	9

32	Turbulence-Driven Magnetic Reconnection in the Magnetosheath Downstream of a Quasi-Parallel Shock: A Three-Dimensional Global Hybrid Simulation. <i>Geophysical Research Letters</i> , 2020 , 47, e2019GL085661	4.9	9
31	Out-of-plane electron currents in magnetic islands formed during collisionless magnetic reconnection. <i>Journal of Geophysical Research: Space Physics</i> , 2013 , 118, 991-996	2.6	9
30	The ion temperature gradient: An intrinsic property of Earth's magnetotail. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 8295-8309	2.6	8
29	Kinetic simulations of the structures of magnetic island in multiple X line guide field reconnection. <i>Physics of Plasmas</i> , 2012 , 19, 042111	2.1	8
28	Particle-in-cell Simulations of Secondary Magnetic Islands: Ion-scale Flux Ropes and Plasmoids. <i>Astrophysical Journal</i> , 2020 , 900, 145	4.7	8
27	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
26	Electron Cooling and Isotropization during Magnetotail Current Sheet Thinning: Implications for Parallel Electric Fields. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 11,389-11,401	2.6	7
25	Dissipation of Earthward Propagating Flux Rope Through Re-reconnection with Geomagnetic Field: An MMS Case Study. <i>Journal of Geophysical Research: Space Physics</i> , 2019 , 124, 7477-7493	2.6	6
24	Understanding Spacecraft Trajectories Through Detached Magnetotail Interchange Heads. <i>Journal of Geophysical Research: Space Physics</i> , 2020 , 125, e2020JA027930	2.6	6
23	Fast Recursive Reconnection and the Hall Effect: Hall-MHD Simulations. <i>Astrophysical Journal</i> , 2019 , 883, 172	4.7	6
22	Energy Budgets From Collisionless Magnetic Reconnection Site to Reconnection Front. <i>Journal of Geophysical Research: Space Physics</i> , 2021 , 126, e2021JA029712	2.6	6
21	Energetic Electron Acceleration by Ion-scale Magnetic Islands in Turbulent Magnetic Reconnection: Particle-in-cell Simulations and ARTEMIS Observations. <i>Astrophysical Journal</i> , 2020 , 896, 105	4.7	5
20	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
19	Physical Implication of Two Types of Reconnection Electron Diffusion Regions With and Without Ion-Coupling in the Magnetotail Current Sheet. <i>Geophysical Research Letters</i> , 2020 , 47, e2020GL088761	4.9	4
18	Magnetic reconnection in a charged, electron-dominant current sheet. <i>Physics of Plasmas</i> , 2020 , 27, 102902	2.2	4
17	Configuration of the Earth's Magnetotail Current Sheet. <i>Geophysical Research Letters</i> , 2021 , 48, e2020GL092153	4.9	4
16	Structure and Coalescence of Magnetopause Flux Ropes and Their Dependence on IMF Clock Angle: Three-Dimensional Global Hybrid Simulations. <i>Journal of Geophysical Research: Space Physics</i> , 2021 , 126, e2020JA028670	2.6	4
15	Spontaneous Onset of Collisionless Magnetic Reconnection on an Electron Scale. <i>Astrophysical Journal Letters</i> , 2020 , 890, L15	7.9	3

14	Formation of Pancake, Rolling Pin, and Cigar Distributions of Energetic Electrons at the Dipolarization Fronts (DFs) Driven by Magnetic Reconnection: A Two-Dimensional Particle-In-Cell Simulation. <i>Journal of Geophysical Research: Space Physics</i> , 2021 , 126, e2021JA029939	2.6	2
13	Re-Reconnection Processes of Magnetopause Flux Ropes: Three-Dimensional Global Hybrid Simulations. <i>Journal of Geophysical Research: Space Physics</i> , 2021 , 126, e2021JA029388	2.6	2
12	Particle-In-Cell Simulations of Electrostatic Solitary Waves in Asymmetric Magnetic Reconnection. <i>Journal of Geophysical Research: Space Physics</i> , 2021 , 126, e2021JA029290	2.6	2
11	Two-dimensional Particle-in-cell Simulation of Magnetic Reconnection in the Downstream of a Quasi-perpendicular Shock. <i>Astrophysical Journal</i> , 2021 , 919, 28	4.7	2
10	Electron-Only Reconnection as a Transition Phase From Quiet Magnetotail Current Sheets to Traditional Magnetotail Reconnection. <i>Journal of Geophysical Research: Space Physics</i> , 2022 , 127,	2.6	2
9	Magnetotail Ion Structuring by Kinetic Ballooning-Interchange Instability. <i>Geophysical Research Letters</i> , 2022 , 49,	4.9	1
8	Electrodynamic Contributions to the Hall- and Parallel Electric Fields in Collisionless Magnetic Reconnection. <i>Journal of Geophysical Research: Space Physics</i> , 2021 , 126, e2021JA029550	2.6	1
7	Temporal Evolution of Flux Rope/Tube Entanglement in 3-D Hall MHD Simulations. <i>Journal of Geophysical Research: Space Physics</i> , 2021 , 126, e2020JA028698	2.6	1
6	Externally driven bifurcation of current sheet: A particle-in-cell simulation. <i>AIP Advances</i> , 2021 , 11, 0150015	4.7	1
5	The Evolution of Collisionless Magnetic Reconnection from Electron Scales to Ion Scales. <i>Astrophysical Journal</i> , 2021 , 922, 51	4.7	0
4	Three-Dimensional Global Hybrid Simulations of High Latitude Magnetopause Reconnection and Flux Ropes During the Northward IMF. <i>Geophysical Research Letters</i> , 2021 , 48, e2021GL095003	4.9	0
3	Low-frequency Waves Upstream of Quasi-parallel Shocks: Two-dimensional Hybrid Simulations. <i>Astrophysical Journal</i> , 2021 , 915, 64	4.7	0
2	Physical Regimes of Two-dimensional MHD Turbulent Reconnection in Different Lundquist Numbers. <i>Astrophysical Journal</i> , 2022 , 926, 97	4.7	0
1	Electron-Only Reconnection as a Transition From Quiet Current Sheet to Standard Reconnection in Earth's Magnetotail: Particle-In-Cell Simulation and Application to MMS Data. <i>Geophysical Research Letters</i> , 2022 , 49,	4.9	0