

San Lu

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/8257625/san-lu-publications-by-year.pdf>

Version: 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	Magnetotail Ion Structuring by Kinetic Ballooning-Interchange Instability. <i>Geophysical Research Letters</i> , 2022 , 49,	4.9	1
66	Physical Regimes of Two-dimensional MHD Turbulent Reconnection in Different Lundquist Numbers. <i>Astrophysical Journal</i> , 2022 , 926, 97	4.7	0
65	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
64	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
63	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
62	The Evolution of Collisionless Magnetic Reconnection from Electron Scales to Ion Scales. <i>Astrophysical Journal</i> , 2021 , 922, 51	4.7	0
61	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
60	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
59	Configuration of the Earth's Magnetotail Current Sheet. <i>Geophysical Research Letters</i> , 2021 , 48, e2020GL092153	4.9	1
58	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
57	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
56	Externally driven bifurcation of current sheet: A particle-in-cell simulation. <i>AIP Advances</i> , 2021 , 11, 015001	1.5	1
55	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
54	Low-frequency Waves Upstream of Quasi-parallel Shocks: Two-dimensional Hybrid Simulations. <i>Astrophysical Journal</i> , 2021 , 915, 64	4.7	0
53	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
52	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
51	Energy Budgets From Collisionless Magnetic Reconnection Site to Reconnection Front. <i>Journal of Geophysical Research: Space Physics</i> , 2021 , 126, e2021JA029712	2.6	6

50	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
49	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
48	Understanding Spacecraft Trajectories Through Detached Magnetotail Interchange Heads. <i>Journal of Geophysical Research: Space Physics</i> , 2020 , 125, e2020JA027930	2.6	6
47	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
46	Spontaneous Onset of Collisionless Magnetic Reconnection on an Electron Scale. <i>Astrophysical Journal Letters</i> , 2020 , 890, L15	7.9	3
45	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
44	Magnetospheric Multiscale (MMS) Observations of Magnetic Reconnection in Foreshock Transients. <i>Journal of Geophysical Research: Space Physics</i> , 2020 , 125, e2020JA027822	2.6	12
43	Particle-in-cell Simulations of Secondary Magnetic Islands: Ion-scale Flux Ropes and Plasmoids. <i>Astrophysical Journal</i> , 2020 , 900, 145	4.7	8
42	Magnetotail dipolarization fronts and particle acceleration: A review. <i>Science China Earth Sciences</i> , 2020 , 63, 235-256	4.6	43
41	Magnetic reconnection in a charged, electron-dominant current sheet. <i>Physics of Plasmas</i> , 2020 , 27, 102902	4.3	4
40	Magnetotail reconnection onset caused by electron kinetics with a strong external driver. <i>Nature Communications</i> , 2020 , 11, 5049	17.4	37
39	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
38	Relativistic electrons generated at Earth's quasi-parallel bow shock. <i>Science Advances</i> , 2019 , 5, eaaw1368	4.3	18
37	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
36	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
35	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
34	Fast Recursive Reconnection and the Hall Effect: Hall-MHD Simulations. <i>Astrophysical Journal</i> , 2019 , 883, 172	4.7	6
33	Effects of Cross-Sheet Density and Temperature Inhomogeneities on Magnetotail Reconnection. <i>Geophysical Research Letters</i> , 2019 , 46, 28-36	4.9	15

32	Ion Acceleration Inside Foreshock Transients. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 163-178	2.6	20
31	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
30	Magnetic reconnection in Earth's magnetotail: Energy conversion and its earthward tailward asymmetry. <i>Physics of Plasmas</i> , 2018 , 25, 012905	2.1	15
29	Near-Earth Reconnection Ejecta at Lunar Distances. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 2736-2744	2.6	15
28	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
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	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
25	Development of Turbulent Magnetic Reconnection in a Magnetic Island. <i>Astrophysical Journal</i> , 2017 , 835, 245	4.7	9
24	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
23	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
22	Fermi acceleration of electrons inside foreshock transient cores. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 9248-9263	2.6	23
21	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
20	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
19	Coalescence of magnetic flux ropes in the ion diffusion region of magnetic reconnection. <i>Nature Physics</i> , 2016 , 12, 263-267	16.2	85
18	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
17	On the current density reduction ahead of dipolarization fronts. <i>Journal of Geophysical Research: Space Physics</i> , 2016 , 121, 4269-4278	2.6	19
16	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
15	Evolution of flux ropes in the magnetotail: A three-dimensional global hybrid simulation. <i>Physics of Plasmas</i> , 2015 , 22, 052901	2.1	13

14	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
13	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
12	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
11	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
10	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
9	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
8	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
7	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
6	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
5	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
4	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
3	Weibel instability and structures of magnetic island in anti-parallel collisionless magnetic reconnection. <i>Physics of Plasmas</i> , 2011 , 18, 072105	2.1	12
2	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
1	Electron dynamics in collisionless magnetic reconnection. <i>Science Bulletin</i> , 2011 , 56, 1174-1181		12