

L-J Chen

List of Publications by Year in descending order

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135
papers

5,156
citations

70961

41
h-index

102304

66
g-index

142
all docs

142
docs citations

142
times ranked

1932
citing authors

#	ARTICLE	IF	CITATIONS
1	Electron-scale measurements of magnetic reconnection in space. <i>Science</i> , 2016, 352, aaf2939.	6.0	545
2	Observation of energetic electrons within magnetic islands. <i>Nature Physics</i> , 2008, 4, 19-23.	6.5	238
3	Electron-scale dynamics of the diffusion region during symmetric magnetic reconnection in space. <i>Science</i> , 2018, 362, 1391-1395.	6.0	221
4	Isolated electrostatic structures observed throughout the Cluster orbit: relationship to magnetic field strength. <i>Annales Geophysicae</i> , 2004, 22, 2515-2523.	0.6	117
5	Remote determination of auroral energy characteristics during substorm activity. <i>Geophysical Research Letters</i> , 1997, 24, 995-998.	1.5	108
6	MMS observations of electron-scale filamentary currents in the reconnection exhaust and near the X line. <i>Geophysical Research Letters</i> , 2016, 43, 6060-6069.	1.5	99
7	Ion-scale secondary flux ropes generated by magnetopause reconnection as resolved by MMS. <i>Geophysical Research Letters</i> , 2016, 43, 4716-4724.	1.5	95
8	Evidence of an extended electron current sheet and its neighboring magnetic island during magnetotail reconnection. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	92
9	Solitary waves observed in the auroral zone: the Cluster multi-spacecraft perspective. <i>Nonlinear Processes in Geophysics</i> , 2004, 11, 183-196.	0.6	87
10	MMS observations of large guide field symmetric reconnection between colliding reconnection jets at the center of a magnetic flux rope at the magnetopause. <i>Geophysical Research Letters</i> , 2016, 43, 5536-5544.	1.5	84
11	Currents and associated electron scattering and bouncing near the diffusion region at Earth's magnetopause. <i>Geophysical Research Letters</i> , 2016, 43, 3042-3050.	1.5	81
12	Magnetospheric Multiscale Dayside Reconnection Electron Diffusion Region Events. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 4858-4878.	0.8	79
13	Magnetospheric Multiscale Observations of the Electron Diffusion Region of Large Guide Field Magnetic Reconnection. <i>Physical Review Letters</i> , 2016, 117, 015001.	2.9	74
14	Electron distribution functions in the diffusion region of asymmetric magnetic reconnection. <i>Geophysical Research Letters</i> , 2016, 43, 1828-1836.	1.5	72
15	New observations of ion beams in the plasma sheet boundary layer. <i>Geophysical Research Letters</i> , 1998, 25, 3285-3288.	1.5	71
16	Kinetic Structure of the Electron Diffusion Region in Antiparallel Magnetic Reconnection. <i>Physical Review Letters</i> , 2011, 106, 065002.	2.9	69
17	Magnetic Reconnection, Turbulence, and Particle Acceleration: Observations in the Earth's Magnetotail. <i>Geophysical Research Letters</i> , 2018, 45, 3338-3347.	1.5	69
18	On the generation of solitary waves observed by Cluster in the near-Earth magnetosheath. <i>Nonlinear Processes in Geophysics</i> , 2005, 12, 181-193.	0.6	68

#	ARTICLE	IF	CITATIONS
19	Electron energization and mixing observed by MMS in the vicinity of an electron diffusion region during magnetopause reconnection. <i>Geophysical Research Letters</i> , 2016, 43, 6036-6043.	1.5	67
20	Magnetospheric Multiscale observations of large-amplitude, parallel, electrostatic waves associated with magnetic reconnection at the magnetopause. <i>Geophysical Research Letters</i> , 2016, 43, 5626-5634.	1.5	66
21	Properties of small-amplitude electron phase-space holes observed by Polar. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	61
22	Magnetospheric Multiscale Satellites Observations of Parallel Electric Fields Associated with Magnetic Reconnection. <i>Physical Review Letters</i> , 2016, 116, 235102.	2.9	61
23	Spatiotemporal evolution of electron characteristics in the electron diffusion region of magnetic reconnection: Implications for acceleration and heating. <i>Geophysical Research Letters</i> , 2015, 42, 2586-2593.	1.5	60
24	Electron energization and structure of the diffusion region during asymmetric reconnection. <i>Geophysical Research Letters</i> , 2016, 43, 2405-2412.	1.5	60
25	Cluster observations of bidirectional beams caused by electron trapping during antiparallel reconnection. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	58
26	Multispacecraft observations of the electron current sheet, neighboring magnetic islands, and electron acceleration during magnetotail reconnection. <i>Physics of Plasmas</i> , 2009, 16, .	0.7	57
27	Electron Energy Partition across Interplanetary Shocks. I. Methodology and Data Product. <i>Astrophysical Journal, Supplement Series</i> , 2019, 243, 8.	3.0	57
28	Enhanced electron mixing and heating in 3D asymmetric reconnection at the Earth's magnetopause. <i>Geophysical Research Letters</i> , 2017, 44, 2096-2104.	1.5	56
29	Electron distribution functions in the electron diffusion region of magnetic reconnection: Physics behind the fine structures. <i>Geophysical Research Letters</i> , 2014, 41, 8688-8695.	1.5	55
30	Furthering our understanding of electrostatic solitary waves through Cluster multispacecraft observations and theory. <i>Advances in Space Research</i> , 2008, 41, 1666-1676.	1.2	53
31	Bernstein-Greene-Kruskal solitary waves in three-dimensional magnetized plasma. <i>Physical Review E</i> , 2004, 69, 055401.	0.8	52
32	Microfabricated Flexible Electrodes for Multiaxis Sensing in the Large Plasma Device at UCLA. <i>IEEE Transactions on Plasma Science</i> , 2011, 39, 1507-1515.	0.6	52
33	Electron diffusion region during magnetopause reconnection with an intermediate guide field: Magnetospheric multiscale observations. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 5235-5246.	0.8	52
34	On the electron diffusion region in asymmetric reconnection with a guide magnetic field. <i>Geophysical Research Letters</i> , 2016, 43, 2359-2364.	1.5	50
35	Electron dynamics in a subproton-gyroscale magnetic hole. <i>Geophysical Research Letters</i> , 2016, 43, 4112-4118.	1.5	49
36	Large-scale characteristics of reconnection diffusion regions and associated magnetopause crossings observed by MMS. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 5466-5486.	0.8	48

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37	Observational Evidence of Magnetic Reconnection in the Terrestrial Bow Shock Transition Region. <i>Geophysical Research Letters</i> , 2019, 46, 562-570.	1.5	47
38	On the width-amplitude inequality of electron phase space holes. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	46
39	Drift waves, intense parallel electric fields, and turbulence associated with asymmetric magnetic reconnection at the magnetopause. <i>Geophysical Research Letters</i> , 2017, 44, 2978-2986.	1.5	46
40	A dayside auroral energy deposition case study using the Polar Ultraviolet Imager. <i>Geophysical Research Letters</i> , 1997, 24, 991-994.	1.5	45
41	Drift turbulence, particle transport, and anomalous dissipation at the reconnecting magnetopause. <i>Physics of Plasmas</i> , 2018, 25, .	0.7	45
42	Spacecraft Observations and Analytic Theory of Crescent-Shaped Electron Distributions in Asymmetric Magnetic Reconnection. <i>Physical Review Letters</i> , 2016, 117, 185101.	2.9	42
43	Laboratory Measurements of Electrostatic Solitary Structures Generated by Beam Injection. <i>Physical Review Letters</i> , 2010, 105, 115001.	2.9	41
44	Magnetospheric Multiscale mission observations of the outer electron diffusion region. <i>Geophysical Research Letters</i> , 2017, 44, 2049-2059.	1.5	41
45	Localized Oscillatory Energy Conversion in Magnetopause Reconnection. <i>Geophysical Research Letters</i> , 2018, 45, 1237-1245.	1.5	41
46	The inversion layer of electric fields and electron phase-space-hole structure during two-dimensional collisionless magnetic reconnection. <i>Physics of Plasmas</i> , 2011, 18, 012904.	0.7	40
47	Electron Energy Partition across Interplanetary Shocks. II. Statistics. <i>Astrophysical Journal, Supplement Series</i> , 2019, 245, 24.	3.0	40
48	Electron Bulk Acceleration and Thermalization at Earth's Quasiperpendicular Bow Shock. <i>Physical Review Letters</i> , 2018, 120, 225101.	2.9	38
49	Finite gyroradius effects in the electron outflow of asymmetric magnetic reconnection. <i>Geophysical Research Letters</i> , 2016, 43, 6724-6733.	1.5	37
50	Magnetic Reconnection in a Quasi-Parallel Shock: Two-Dimensional Local Particle-in-Cell Simulation. <i>Geophysical Research Letters</i> , 2019, 46, 9352-9361.	1.5	36
51	Reconnection With Magnetic Flux Pileup at the Interface of Converging Jets at the Magnetopause. <i>Geophysical Research Letters</i> , 2019, 46, 1937-1946.	1.5	36
52	Kinetic Characterization of Plasma Sheet Dynamics. <i>Space Science Reviews</i> , 2001, 95, 237-255.	3.7	35
53	Laboratory Study of Magnetic Reconnection with a Density Asymmetry across the Current Sheet. <i>Physical Review Letters</i> , 2014, 113, 095002.	2.9	35
54	Magnetic Reconnection at a Thin Current Sheet Separating Two Interlaced Flux Tubes at the Earth's Magnetopause. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 1779-1793.	0.8	35

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55	BGK electron solitary waves in 3D magnetized plasma. <i>Geophysical Research Letters</i> , 2002, 29, 45-1-45-4.	1.5	33
56	Highly structured electron anisotropy in collisionless reconnection exhausts. <i>Geophysical Research Letters</i> , 2014, 41, 5389-5395.	1.5	33
57	Electron Diffusion Regions in Magnetotail Reconnection Under Varying Guide Fields. <i>Geophysical Research Letters</i> , 2019, 46, 6230-6238.	1.5	33
58	Electrostatic solitary structures associated with the November 10, 2003, interplanetary shock at 8.7 AU. <i>Geophysical Research Letters</i> , 2005, 32, .	1.5	32
59	High-Frequency Wave Generation in Magnetotail Reconnection: Linear Dispersion Analysis. <i>Geophysical Research Letters</i> , 2019, 46, 4089-4097.	1.5	32
60	Lower-Hybrid Drift Waves Driving Electron Nongyrotropic Heating and Vortical Flows in a Magnetic Reconnection Layer. <i>Physical Review Letters</i> , 2020, 125, 025103.	2.9	29
61	BGK electron solitary waves: 1D and 3D. <i>Nonlinear Processes in Geophysics</i> , 2002, 9, 111-119.	0.6	28
62	Electron heating in the exhaust of magnetic reconnection with negligible guide field. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 2104-2130.	0.8	27
63	On the role of separatrix instabilities in heating the reconnection outflow region. <i>Physics of Plasmas</i> , 2018, 25, .	0.7	27
64	Wind observations pertaining to current disruption and ballooning instability during substorms. <i>Geophysical Research Letters</i> , 2003, 30, .	1.5	26
65	Electrostatic solitary structures observed at Saturn. <i>Geophysical Research Letters</i> , 2006, 33, .	1.5	25
66	Coincident POLAR/UVI and WIND observations of pseudobreakups. <i>Geophysical Research Letters</i> , 2000, 27, 1379-1382.	1.5	24
67	Auroral Observations from the POLAR Ultraviolet Imager (UVI). <i>Geophysical Monograph Series</i> , 0, , 149-160.	0.1	24
68	In-plane electric fields in magnetic islands during collisionless magnetic reconnection. <i>Physics of Plasmas</i> , 2012, 19, 112902.	0.7	23
69	Electron Inflow Velocities and Reconnection Rates at Earth's Magnetopause and Magnetosheath. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL089082.	1.5	23
70	Kinetic properties of bursty bulk flow events. <i>Geophysical Research Letters</i> , 2000, 27, 1847-1850.	1.5	22
71	Magnetic reconnection and kinetic waves generated in the Earth's quasi-parallel bow shock. <i>Physics of Plasmas</i> , 2020, 27, .	0.7	21
72	Solitary Magnetic Structures at Quasi-Parallel Collisionless Shocks: Formation. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL090800.	1.5	21

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73	Electron Energy Partition across Interplanetary Shocks. III. Analysis. <i>Astrophysical Journal</i> , 2020, 893, 22.	1.6	21
74	Electrostatic solitary waves in current layers: from Cluster observations during a super-substorm to beam experiments at the LAPD. <i>Nonlinear Processes in Geophysics</i> , 2009, 16, 431-442.	0.6	20
75	The effect of reconnection electric field on crescent and U-shaped distribution functions in asymmetric reconnection with no guide field. <i>Physics of Plasmas</i> , 2017, 24, .	0.7	20
76	The physical foundation of the reconnection electric field. <i>Physics of Plasmas</i> , 2018, 25, .	0.7	20
77	Auroral electron dispersion below inverted-V energies: Resonant deceleration and acceleration by Alfvén waves. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	19
78	Two-scale ion meandering caused by the polarization electric field during asymmetric reconnection. <i>Geophysical Research Letters</i> , 2016, 43, 7831-7839.	1.5	19
79	Wave Phenomena and Beam-Plasma Interactions at the Magnetopause Reconnection Region. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 1118-1133.	0.8	19
80	MMS Measurements of the Vlasov Equation: Probing the Electron Pressure Divergence Within Thin Current Sheets. <i>Geophysical Research Letters</i> , 2019, 46, 7862-7872.	1.5	19
81	Electron heating and energy inventory during asymmetric reconnection in a laboratory plasma. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 9264-9281.	0.8	18
82	The two-fluid dynamics and energetics of the asymmetric magnetic reconnection in laboratory and space plasmas. <i>Nature Communications</i> , 2018, 9, 5223.	5.8	18
83	Bursty magnetic reconnection at the Earth's magnetopause triggered by high-speed jets. <i>Physics of Plasmas</i> , 2021, 28, .	0.7	18
84	Debye-scale solitary structures measured in a beam-plasma laboratory experiment. <i>Nonlinear Processes in Geophysics</i> , 2011, 18, 41-47.	0.6	18
85	Energy Conversion and Partition in the Asymmetric Reconnection Diffusion Region. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 8185-8205.	0.8	17
86	Whistler Wave Generation by Anisotropic Tail Electrons During Asymmetric Magnetic Reconnection in Space and Laboratory. <i>Geophysical Research Letters</i> , 2018, 45, 8054-8061.	1.5	17
87	Crater flux transfer events: Highroad to the X line?. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a.	3.3	16
88	Lower Hybrid Drift Waves During Guide Field Reconnection. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL087192.	1.5	16
89	Does the UVI on polar detect cosmic snowballs?. <i>Geophysical Research Letters</i> , 1997, 24, 3109-3112.	1.5	15
90	On the Collisionless Asymmetric Magnetic Reconnection Rate. <i>Geophysical Research Letters</i> , 2018, 45, 3311-3318.	1.5	15

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91	Structures in the terms of the Vlasov equation observed at Earth's magnetopause. <i>Nature Physics</i> , 2021, 17, 1056-1065.	6.5	15
92	3D Space-Time Adaptive Hybrid Simulations of Magnetosheath High-Speed Jets. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA029035.	0.8	15
93	Effect of the Reconnection Electric Field on Electron Distribution Functions in the Diffusion Region of Magnetotail Reconnection. <i>Geophysical Research Letters</i> , 2018, 45, 12,142.	1.5	14
94	Magnetopause Reconnection and Indents Induced by Foreshock Turbulence. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL093029.	1.5	14
95	HYPERS simulations of solar wind interactions with the Earth's magnetosphere and the Moon. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2021, 215, 105581.	0.6	13
96	Strong reconnection electric fields in shock-driven turbulence. <i>Physics of Plasmas</i> , 2022, 29, .	0.7	13
97	Multicomponent plasma distributions in the tail current sheet associated with substorms. <i>Geophysical Research Letters</i> , 2000, 27, 843-846.	1.5	12
98	Comparison of plasma sheet dynamics during pseudobreakups and expansive aurorae. <i>Physics of Plasmas</i> , 2001, 8, 1127.	0.7	12
99	Electron acceleration by parallel and perpendicular electric fields during magnetic reconnection without guide field. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 9355-9367.	0.8	12
100	Ion demagnetization in the magnetopause current layer observed by MMS. <i>Geophysical Research Letters</i> , 2016, 43, 4850-4857.	1.5	12
101	Ion-scale Current Structures in Short Large-amplitude Magnetic Structures. <i>Astrophysical Journal</i> , 2020, 898, 121.	1.6	12
102	<i>In-situ</i> observations of flux ropes formed in association with a pair of spiral nulls in magnetotail plasmas. <i>Physics of Plasmas</i> , 2016, 23, .	0.7	11
103	Population Mixing in Asymmetric Magnetic Reconnection with a Guide Field. <i>Physical Review Letters</i> , 2017, 118, 145101.	2.9	11
104	Whistler wave generation by electron temperature anisotropy during magnetic reconnection at the magnetopause. <i>Physics of Plasmas</i> , 2019, 26, .	0.7	11
105	The Discrepancy Between Simulation and Observation of Electric Fields in Collisionless Shocks. <i>Frontiers in Astronomy and Space Sciences</i> , 2021, 7, .	1.1	11
106	Multiscale Coupling During Magnetopause Reconnection: Interface Between the Electron and Ion Diffusion Regions. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2020JA027985.	0.8	10
107	Statistical Properties of Magnetic Structures and Energy Dissipation during Turbulent Reconnection in the Earth's Magnetotail. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL088540.	1.5	9
108	Lower-hybrid drift waves and their interaction with plasmas in a 3D symmetric reconnection simulation with zero guide field. <i>Physics of Plasmas</i> , 2021, 28, .	0.7	9

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109	Parallel electron heating in the magnetospheric inflow region. <i>Geophysical Research Letters</i> , 2017, 44, 4384-4392.	1.5	8
110	Effects of the guide field on electron distribution functions in the diffusion region of asymmetric reconnection. <i>Physics of Plasmas</i> , 2019, 26, .	0.7	8
111	Lowerâ€Hybrid Wave Structures and Interactions With Electrons Observed in Magnetotail Reconnection Diffusion Regions. <i>Journal of Geophysical Research: Space Physics</i> , 2022, 127, .	0.8	8
112	The geopause in relation to the plasma sheet and the low-latitude boundary layer: Comparison between Wind observations and multifluid simulations. <i>Journal of Geophysical Research</i> , 2000, 105, 2563-2587.	3.3	7
113	Hodographic approach for determining spacecraft trajectories through magnetic reconnection diffusion regions. <i>Geophysical Research Letters</i> , 2017, 44, 1625-1633.	1.5	7
114	Solitary Magnetic Structures Developed From Gyroâ€Resonance With Solar Wind Ions at Mars and Earth. <i>Geophysical Research Letters</i> , 2022, 49, .	1.5	7
115	Unsteady Magnetopause Reconnection Under Quasiâ€Steady Solar Wind Driving. <i>Geophysical Research Letters</i> , 2022, 49, .	1.5	7
116	Magnetic Reconnection in Three Dimensions: Observations of Electromagnetic Drift Waves in the Adjacent Current Sheet. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 10104-10118.	0.8	6
117	Lowerâ€Hybridâ€Drift Vortices in the Electronâ€Scale Magnetic Reconnection Layer. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL090726.	1.5	6
118	Magnetotailâ€Inner Magnetosphere Transport Associated With Fast Flows Based on Combined Globalâ€Hybrid and CIMI Simulation. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028405.	0.8	6
119	Direct Evidence for Magnetic Reflection of Heavy Ions from High Mach Number Collisionless Shocks. <i>Astrophysical Journal Letters</i> , 2021, 915, L19.	3.0	6
120	Evaluating the deHoffmannâ€Teller Crossâ€Shock Potential at Real Collisionless Shocks. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2021JA029295.	0.8	6
121	A statistical study of three-second foreshock ULF waves observed by the Magnetospheric Multiscale mission. <i>Physics of Plasmas</i> , 2021, 28, .	0.7	6
122	Whistler waves generated by nongyrotropic and gyrotropic electron beams during asymmetric guide field reconnection. <i>Physics of Plasmas</i> , 2022, 29, .	0.7	6
123	Ion Behaviors in the Reconnection Diffusion Region of a Corrugated Magnetotail Current Sheet. <i>Geophysical Research Letters</i> , 2019, 46, 5014-5020.	1.5	5
124	A Case Study of Nonresonant Mode 3â€™s ULF Waves Observed by MMS. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2020JA028557.	0.8	5
125	A new framework for studying the relationship of aurora and plasma sheet dynamics. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2002, 64, 115-124.	0.6	4
126	A New Look at the Electron Diffusion Region in Asymmetric Magnetic Reconnection. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028456.	0.8	4

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127	The EDR inflow region of a reconnecting current sheet in the geomagnetic tail. <i>Physics of Plasmas</i> , 2022, 29, .	0.7	3
128	Automatic Identification and New Observations of Ion Energy Dispersion Events in the Cusp Ionosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2022, 127, .	0.8	2
129	Reply [to "Comment on: "New observations of ion beams in the plasma sheet boundary layer" by G. Parks, et al.]. <i>Geophysical Research Letters</i> , 1999, 26, 2639-2640.	1.5	1
130	On The Propagation And Modulation Of Electrostatic Solitary Waves Observed Near The Magnetopause On Cluster. <i>AIP Conference Proceedings</i> , 2011, , .	0.3	1
131	Correlating the interplanetary factors to distinguish extreme and major geomagnetic storms. <i>Earth and Planetary Physics</i> , 2021, 5, 1-7.	0.4	1
132	Three Solar Irradiance Proxies for Aperture Photoelectron Detections in Top-Hat ESAs Coated With Ebonol. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, .	0.8	1
133	New results on the polar cap and PSBL dynamics. <i>Geophysical Monograph Series</i> , 1999, , 57-64.	0.1	0
134	MMS Observations of an Expanding Oxygen Wave in Magnetic Reconnection. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL095065.	1.5	0
135	Reconstruction of Electron and Ion Distribution Functions in a Magnetotail Reconnection Diffusion Region. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2020JA027879.	0.8	0