

# J L Burch

## List of Publications by Year in descending order

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446  
papers

17,955  
citations

19636

61  
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26591

107  
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477  
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477  
docs citations

477  
times ranked

4165  
citing authors

#	ARTICLE	IF	CITATIONS
1	Magnetospheric Multiscale Overview and Science Objectives. <i>Space Science Reviews</i> , 2016, 199, 5-21.	3.7	1,118
2	Fast Plasma Investigation for Magnetospheric Multiscale. <i>Space Science Reviews</i> , 2016, 199, 331-406.	3.7	960
3	Electron-scale measurements of magnetic reconnection in space. <i>Science</i> , 2016, 352, aaf2939.	6.0	545
4	Cassini Plasma Spectrometer Investigation. <i>Space Science Reviews</i> , 2004, 114, 1-112.	3.7	452
5	Solar wind plasma injection at the dayside magnetospheric cusp. <i>Journal of Geophysical Research</i> , 1977, 82, 479-491.	3.3	361
6	The Space Physics Environment Data Analysis System (SPEDAS). <i>Space Science Reviews</i> , 2019, 215, 9.	3.7	332
7	An extreme distortion of the Van Allen belt arising from the "Hallowe'en" solar storm in 2003. <i>Nature</i> , 2004, 432, 878-881.	13.7	299
8	Electron magnetic reconnection without ion coupling in Earth's turbulent magnetosheath. <i>Nature</i> , 2018, 557, 202-206.	13.7	263
9	IMAGE mission overview. <i>Space Science Reviews</i> , 2000, 91, 1-14.	3.7	237
10	Electron-scale dynamics of the diffusion region during symmetric magnetic reconnection in space. <i>Science</i> , 2018, 362, 1391-1395.	6.0	221
11	Views of Earth's Magnetosphere with the IMAGE Satellite. <i>Science</i> , 2001, 291, 619-624.	6.0	150
12	Hot Plasma Composition Analyzer for the Magnetospheric Multiscale Mission. <i>Space Science Reviews</i> , 2016, 199, 407-470.	3.7	147
13	Magnetospheric Multiscale Science Mission Profile and Operations. <i>Space Science Reviews</i> , 2016, 199, 77-103.	3.7	138
14	RPC: The Rosetta Plasma Consortium. <i>Space Science Reviews</i> , 2007, 128, 629-647.	3.7	135
15	Magnetic reconnection at the dayside magnetopause: Advances with MMS. <i>Geophysical Research Letters</i> , 2016, 43, 8327-8338.	1.5	125
16	RPC-IES: The Ion and Electron Sensor of the Rosetta Plasma Consortium. <i>Space Science Reviews</i> , 2007, 128, 697-712.	3.7	123
17	Evidence for rotationally driven plasma transport in Saturn's magnetosphere. <i>Geophysical Research Letters</i> , 2005, 32, n/a-n/a.	1.5	121
18	Properties of local plasma injections in Saturn's magnetosphere. <i>Geophysical Research Letters</i> , 2005, 32, n/a-n/a.	1.5	109

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19	Lower hybrid waves in the ion diffusion and magnetospheric inflow regions. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 517-533.	0.8	108
20	Birth of a comet magnetosphere: A spring of water ions. <i>Science</i> , 2015, 347, aaa0571.	6.0	107
21	Cusp aurora dependence on interplanetary magnetic field $B_z$ . <i>Journal of Geophysical Research</i> , 2002, 107, SIA 6-1.	3.3	105
22	RPC-ICA: The Ion Composition Analyzer of the Rosetta Plasma Consortium. <i>Space Science Reviews</i> , 2007, 128, 671-695.	3.7	104
23	Magnetospheric Multiscale observations of magnetic reconnection associated with Kelvin-Helmholtz waves. <i>Geophysical Research Letters</i> , 2016, 43, 5606-5615.	1.5	104
24	Timing of magnetic reconnection initiation during a global magnetospheric substorm onset. <i>Geophysical Research Letters</i> , 2002, 29, 43-1-43-4.	1.5	102
25	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
26	First detection of a diamagnetic cavity at comet 67P/Churyumov-Gerasimenko. <i>Astronomy and Astrophysics</i> , 2016, 588, A24.	2.1	95
27	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
28	Electron scale structures and magnetic reconnection signatures in the turbulent magnetosheath. <i>Geophysical Research Letters</i> , 2016, 43, 5969-5978.	1.5	92
29	High-Altitude Observations of the Polar Wind. <i>Science</i> , 1997, 277, 349-351.	6.0	90
30	Medium energy neutral atom (MENA) imager for the IMAGE mission. <i>Space Science Reviews</i> , 2000, 91, 113-154.	3.7	90
31	2- $\pi$ radian field-of-view toroidal electrostatic analyzer. <i>Review of Scientific Instruments</i> , 1988, 59, 743-751.	0.6	89
32	MMS observations of whistler waves in electron diffusion region. <i>Geophysical Research Letters</i> , 2017, 44, 3954-3962.	1.5	89
33	Rippled Quasiperpendicular Shock Observed by the Magnetospheric Multiscale Spacecraft. <i>Physical Review Letters</i> , 2016, 117, 165101.	2.9	87
34	Interplanetary coronal mass ejection observed at STEREO-A, Mars, comet 67P/Churyumov-Gerasimenko, Saturn, and New Horizons en route to Pluto: Comparison of its Forbush decreases at 1.4, 3.1, and 9.9 AU. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 7865-7890.	0.8	87
35	Estimates of terms in Ohm's law during an encounter with an electron diffusion region. <i>Geophysical Research Letters</i> , 2016, 43, 5918-5925.	1.5	86
36	Magnetospheric Multiscale Observations of Electron Vortex Magnetic Hole in the Turbulent Magnetosheath Plasma. <i>Astrophysical Journal Letters</i> , 2017, 836, L27.	3.0	85

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37	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
38	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
39	Observations of turbulence in a Kelvin-Helmholtz event on 8 September 2015 by the Magnetospheric Multiscale mission. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 11,021.	0.8	81
40	Properties of the Turbulence Associated with Electron-only Magnetic Reconnection in Earth's Magnetosheath. <i>Astrophysical Journal Letters</i> , 2019, 877, L37.	3.0	80
41	Structure and evolution of the diamagnetic cavity at comet 67P/Churyumov-Gerasimenko. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 462, S459-S467.	1.6	79
42	Magnetospheric Multiscale Dayside Reconnection Electron Diffusion Region Events. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 4858-4878.	0.8	79
43	Observations of an Electron Diffusion Region in Symmetric Reconnection with Weak Guide Field. <i>Astrophysical Journal</i> , 2019, 870, 34.	1.6	79
44	Electron-Scale Measurements of Dipolarization Front. <i>Geophysical Research Letters</i> , 2018, 45, 4628-4638.	1.5	77
45	Evolution of the ion environment of comet 67P/Churyumov-Gerasimenko. <i>Astronomy and Astrophysics</i> , 2015, 583, A20.	2.1	76
46	Global dynamics of the plasmasphere and ring current during magnetic storms. <i>Geophysical Research Letters</i> , 2001, 28, 1159-1162.	1.5	75
47	Ionospheric plasma of comet 67P probed by Rosetta at 3 AU from the Sun. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 462, S331-S351.	1.6	75
48	Electron Jet Detected by MMS at Dipolarization Front. <i>Geophysical Research Letters</i> , 2018, 45, 556-564.	1.5	75
49	Magnetotail reconnection onset caused by electron kinetics with a strong external driver. <i>Nature Communications</i> , 2020, 11, 5049.	5.8	75
50	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
51	Wave-particle energy exchange directly observed in a kinetic Alfvén-branch wave. <i>Nature Communications</i> , 2017, 8, 14719.	5.8	73
52	MMS Observation of Magnetic Reconnection in the Turbulent Magnetosheath. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 11,442.	0.8	73
53	Coalescence of Macroscopic Flux Ropes at the Subsolar Magnetopause: Magnetospheric Multiscale Observations. <i>Physical Review Letters</i> , 2017, 119, 055101.	2.9	72
54	Magnetospheric Multiscale Observation of Plasma Velocity-Space Cascade: Hermite Representation and Theory. <i>Physical Review Letters</i> , 2017, 119, 205101.	2.9	69

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55	Magnetic Reconnection, Turbulence, and Particle Acceleration: Observations in the Earth's Magnetotail. <i>Geophysical Research Letters</i> , 2018, 45, 3338-3347.	1.5	69
56	Precipitation of auroral protons in detached arcs. <i>Geophysical Research Letters</i> , 2002, 29, 14-1.	1.5	67
57	Observation of a new type of low-frequency waves at comet 67P/Churyumov-Gerasimenko. <i>Annales Geophysicae</i> , 2015, 33, 1031-1036.	0.6	66
58	Electron jet of asymmetric reconnection. <i>Geophysical Research Letters</i> , 2016, 43, 5571-5580.	1.5	66
59	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
60	Electron-Scale Quadrants of the Hall Magnetic Field Observed by the Magnetospheric Multiscale spacecraft during Asymmetric Reconnection. <i>Physical Review Letters</i> , 2017, 118, 175101.	2.9	64
61	A statistical study of kinetic-size magnetic holes in turbulent magnetosheath: MMS observations. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 8577-8588.	0.8	64
62	How Accurately Can We Measure the Reconnection Rate $\langle i \rangle E \langle /i \rangle \langle /b \rangle \langle sub \rangle \langle b \rangle \langle i \rangle M \langle /i \rangle \langle /b \rangle \langle /sub \rangle$ for the MMS Diffusion Region Event of 11 July 2017?. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 9130-9149.	0.8	64
63	Cause of plasmasphere corotation lag. <i>Geophysical Research Letters</i> , 2004, 31, n/a-n/a.	1.5	62
64	RPC observation of the development and evolution of plasma interaction boundaries at 67P/Churyumov-Gerasimenko. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 462, S9-S22.	1.6	62
65	Characterizing cometary electrons with kappa distributions. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 7407-7422.	0.8	62
66	Magnetospheric Multiscale Satellites Observations of Parallel Electric Fields Associated with Magnetic Reconnection. <i>Physical Review Letters</i> , 2016, 116, 235102.	2.9	61
67	Observations of whistler mode waves with nonlinear parallel electric fields near the dayside magnetic reconnection separatrix by the Magnetospheric Multiscale mission. <i>Geophysical Research Letters</i> , 2016, 43, 5909-5917.	1.5	61
68	MMS Observations of Electrostatic Waves in an Oblique Shock Crossing. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 9430-9442.	0.8	58
69	Tethys and Dione as sources of outward-flowing plasma in Saturn's magnetosphere. <i>Nature</i> , 2007, 447, 833-835.	13.7	57
70	Periodicity in Saturn's magnetosphere: Plasma cam. <i>Geophysical Research Letters</i> , 2009, 36, .	1.5	56
71	In Situ Observation of Intermittent Dissipation at Kinetic Scales in the Earth's Magnetosheath. <i>Astrophysical Journal Letters</i> , 2018, 856, L19.	3.0	55
72	Energy Conversion and Collisionless Plasma Dissipation Channels in the Turbulent Magnetosheath Observed by the Magnetospheric Multiscale Mission. <i>Astrophysical Journal</i> , 2018, 862, 32.	1.6	55

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73	Reconnecting Magnetic Fields. <i>American Scientist</i> , 2009, 97, 392.	0.1	55
74	MMS observations of ion-scale magnetic island in the magnetosheath turbulent plasma. <i>Geophysical Research Letters</i> , 2016, 43, 7850-7858.	1.5	53
75	Electron currents and heating in the ion diffusion region of asymmetric reconnection. <i>Geophysical Research Letters</i> , 2016, 43, 4691-4700.	1.5	53
76	MMS Observations and Hybrid Simulations of Surface Ripples at a Marginally Quasi-Parallel Shock. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 11,003.	0.8	53
77	Interplanetary magnetic field control of afternoon-sector detached proton auroral arcs. <i>Journal of Geophysical Research</i> , 2002, 107, SMP 17-1.	3.3	52
78	Kinetic Alfvén wave explanation of the Hall fields in magnetic reconnection. <i>Geophysical Research Letters</i> , 2017, 44, 634-640.	1.5	52
79	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
80	Electron Crescent Distributions as a Manifestation of Diamagnetic Drift in an Electron-scale Current Sheet: Magnetospheric Multiscale Observations Using New 7.5-Åms Fast Plasma Investigation Moments. <i>Geophysical Research Letters</i> , 2018, 45, 578-584.	1.5	52
81	Energy limits of electron acceleration in the plasma sheet during substorms: A case study with the Magnetospheric Multiscale (MMS) mission. <i>Geophysical Research Letters</i> , 2016, 43, 7785-7794.	1.5	51
82	Higher-Order Turbulence Statistics in the Earth's Magnetosheath and the Solar Wind Using Magnetospheric Multiscale Observations. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 9941-9954.	0.8	51
83	Observations of Magnetic Reconnection in the Transition Region of Quasi-Parallel Shocks. <i>Geophysical Research Letters</i> , 2019, 46, 1177-1184.	1.5	51
84	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
85	Electron Heating at Kinetic Scales in Magnetosheath Turbulence. <i>Astrophysical Journal</i> , 2017, 836, 247.	1.6	50
86	Measurement of the Magnetic Reconnection Rate in the Earth's Magnetotail. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 9150-9168.	0.8	50
87	Magnetic signatures of plasma-depleted flux tubes in the Saturnian inner magnetosphere. <i>Geophysical Research Letters</i> , 2007, 34, .	1.5	49
88	Electron dynamics in a subproton-gyroscale magnetic hole. <i>Geophysical Research Letters</i> , 2016, 43, 4112-4118.	1.5	49
89	Suprathermal electrons near the nucleus of comet 67P/Churyumov-Gerasimenko at 3 AU: Model comparisons with Rosetta data. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 5815-5836.	0.8	49
90	ON ELECTRON-SCALE WHISTLER TURBULENCE IN THE SOLAR WIND. <i>Astrophysical Journal Letters</i> , 2016, 827, L8.	3.0	49

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91	Multispacecraft analysis of dipolarization fronts and associated whistler wave emissions using MMS data. <i>Geophysical Research Letters</i> , 2016, 43, 7279-7286.	1.5	49
92	An Electron-scale Current Sheet Without Bursty Reconnection Signatures Observed in the Near-Earth Tail. <i>Geophysical Research Letters</i> , 2018, 45, 4542-4549.	1.5	49
93	Rosetta observations of solar wind interaction with the comet 67P/Churyumov-Gerasimenko. <i>Astronomy and Astrophysics</i> , 2015, 583, A21.	2.1	48
94	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
95	Solar Wind Turbulence Studies Using MMS Fast Plasma Investigation Data. <i>Astrophysical Journal</i> , 2018, 866, 81.	1.6	48
96	Kinetic evidence of magnetic reconnection due to Kelvin-Helmholtz waves. <i>Geophysical Research Letters</i> , 2016, 43, 5635-5643.	1.5	47
97	Autogenous and efficient acceleration of energetic ions upstream of Earth's bow shock. <i>Nature</i> , 2018, 561, 206-210.	13.7	47
98	Observational Evidence of Magnetic Reconnection in the Terrestrial Bow Shock Transition Region. <i>Geophysical Research Letters</i> , 2019, 46, 562-570.	1.5	47
99	Electron Distribution Functions Around a Reconnection X-Line Resolved by the FOTE Method. <i>Geophysical Research Letters</i> , 2019, 46, 1195-1204.	1.5	47
100	Mass-loading, pile-up, and mirror-mode waves at comet 67P/Churyumov-Gerasimenko. <i>Annales Geophysicae</i> , 2016, 34, 1-15.	0.6	46
101	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
102	Instability of Agyrotropic Electron Beams near the Electron Diffusion Region. <i>Physical Review Letters</i> , 2017, 119, 025101.	2.9	46
103	Observations of Whistler Waves Correlated with Electron-scale Coherent Structures in the Magnetosheath Turbulent Plasma. <i>Astrophysical Journal</i> , 2018, 861, 29.	1.6	46
104	Energy Range of Electron Rolling Pin Distribution Behind Dipolarization Front. <i>Geophysical Research Letters</i> , 2019, 46, 2390-2398.	1.5	46
105	The Rosetta Ion and Electron Sensor (IES) measurement of the development of pickup ions from comet 67P/Churyumov-Gerasimenko. <i>Geophysical Research Letters</i> , 2015, 42, 3093-3099.	1.5	45
106	Magnetic reconnection and modification of the Hall physics due to cold ions at the magnetopause. <i>Geophysical Research Letters</i> , 2016, 43, 6705-6712.	1.5	45
107	Statistical analysis of suprathermal electron drivers at 67P/Churyumov-Gerasimenko. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 462, S312-S322.	1.6	45
108	Magnetospheric Multiscale Satellite Observations of Parallel Electron Acceleration in Magnetic Field Reconnection by Fermi Reflection from Time Domain Structures. <i>Physical Review Letters</i> , 2016, 116, 145101.	2.9	45

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109	The Effect of a Guide Field on Local Energy Conversion During Asymmetric Magnetic Reconnection: MMS Observations. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 11,342.	0.8	45
110	Evidence of Magnetic Nulls in Electron Diffusion Region. <i>Geophysical Research Letters</i> , 2019, 46, 48-54.	1.5	45
111	Universality of Lower Hybrid Waves at Earth's Magnetopause. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 8727-8760.	0.8	45
112	Whistler mode waves and Hall fields detected by MMS during a dayside magnetopause crossing. <i>Geophysical Research Letters</i> , 2016, 43, 5943-5952.	1.5	44
113	Multipoint Measurements of the Electron Jet of Symmetric Magnetic Reconnection with a Moderate Guide Field. <i>Physical Review Letters</i> , 2017, 118, 265101.	2.9	44
114	The occurrence and wave properties of EMIC waves observed by the Magnetospheric Multiscale (MMS) mission. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 8228-8240.	0.8	44
115	Direct Evidence for Electron Acceleration Within Ionâ€scale Flux Rope. <i>Geophysical Research Letters</i> , 2020, 47, e2019GL085141.	1.5	44
116	The location of magnetopause reconnection for northward and southward interplanetary magnetic field. <i>Geophysical Monograph Series</i> , 1994, , 183-197.	0.1	43
117	ROSINA/DFMS and IES observations of 67P: Ion-neutral chemistry in the coma of a weakly outgassing comet. <i>Astronomy and Astrophysics</i> , 2015, 583, A2.	2.1	43
118	On the origin of the crescentâ€shaped distributions observed by MMS at the magnetopause. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 2024-2039.	0.8	43
119	Observations of the Electron Jet Generated by Secondary Reconnection in the Terrestrial Magnetotail. <i>Astrophysical Journal</i> , 2018, 862, 144.	1.6	43
120	<i>In Situ</i> Observation of Hall Magnetohydrodynamic Cascade in Space Plasma. <i>Physical Review Letters</i> , 2020, 124, 225101.	2.9	43
121	Magnetospheric ion influence on magnetic reconnection at the duskside magnetopause. <i>Geophysical Research Letters</i> , 2016, 43, 1435-1442.	1.5	42
122	MMS Multipoint electric field observations of smallâ€scale magnetic holes. <i>Geophysical Research Letters</i> , 2016, 43, 5953-5959.	1.5	42
123	CME impact on comet 67P/Churyumov-Gerasimenko. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 462, S45-S56.	1.6	42
124	Multipoint Observations of Energetic Particle Injections and Substorm Activity During a Conjunction Between Magnetospheric Multiscale (MMS) and Van Allen Probes. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 11,481.	0.8	42
125	Incompressible Energy Transfer in the Earthâ€™s Magnetosheath: Magnetospheric Multiscale Observations. <i>Astrophysical Journal</i> , 2018, 866, 106.	1.6	42
126	Solar wind interactions with Comet 19P/Borrelly. <i>Icarus</i> , 2004, 167, 80-88.	1.1	41



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127	Magnetospheric Multiscale mission observations of the outer electron diffusion region. <i>Geophysical Research Letters</i> , 2017, 44, 2049-2059.	1.5	41
128	Localized Oscillatory Energy Conversion in Magnetopause Reconnection. <i>Geophysical Research Letters</i> , 2018, 45, 1237-1245.	1.5	41
129	Evidence of Electron Acceleration at a Reconnecting Magnetopause. <i>Geophysical Research Letters</i> , 2019, 46, 5645-5652.	1.5	41
130	Energy Conversion and Dissipation at Dipolarization Fronts: A Statistical Overview. <i>Geophysical Research Letters</i> , 2019, 46, 12693-12701.	1.5	41
131	Statistics of Kinetic Dissipation in the Earth's Magnetosheath: MMS Observations. <i>Physical Review Letters</i> , 2020, 124, 255101.	2.9	41
132	Global observations of proton and electron auroras in a substorm. <i>Geophysical Research Letters</i> , 2001, 28, 1139-1142.	1.5	40
133	Quadrupolar pattern of the asymmetric guide-field reconnection. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 6349-6356.	0.8	40
134	Evidence for Secondary Flux Rope Generated by the Electron Kelvin-Helmholtz Instability in a Magnetic Reconnection Diffusion Region. <i>Physical Review Letters</i> , 2018, 120, 075101.	2.9	40
135	The Role of the Parallel Electric Field in Electron-scale Dissipation at Reconnecting Currents in the Magnetosheath. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 6533-6547.	0.8	40
136	Microscopic, Multipoint Characterization of Foreshock Bubbles With Magnetospheric Multiscale (MMS). <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA027707.	0.8	40
137	MMS Examination of FTEs at the Earth's Subsolar Magnetopause. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 1224-1241.	0.8	39
138	Determining $L$ and $M$ Current Sheet Coordinates at the Magnetopause From Magnetospheric Multiscale Data. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 2274-2295.	0.8	38
139	Plasma source and loss at comet 67P during the Rosetta mission. <i>Astronomy and Astrophysics</i> , 2018, 618, A77.	2.1	38
140	Rippled Electron-scale Structure of a Dipolarization Front. <i>Geophysical Research Letters</i> , 2018, 45, 12,116.	1.5	38
141	Electron Bulk Acceleration and Thermalization at Earth's Quasiperpendicular Bow Shock. <i>Physical Review Letters</i> , 2018, 120, 225101.	2.9	38
142	Polynomial Reconstruction of the Reconnection Magnetic Field Observed by Multiple Spacecraft. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA027481.	0.8	38
143	Charge exchange in cometary coma: Discovery of $H^+$ ions in the solar wind close to comet 67P/Churyumov-Gerasimenko. <i>Geophysical Research Letters</i> , 2015, 42, 5125-5131.	1.5	37
144	Finite gyroradius effects in the electron outflow of asymmetric magnetic reconnection. <i>Geophysical Research Letters</i> , 2016, 43, 6724-6733.	1.5	37

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145	Turbulence in Three-dimensional Simulations of Magnetopause Reconnection. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 11,086.	0.8	37
146	In Situ Observation of Magnetic Reconnection Between an Earthward Propagating Flux Rope and the Geomagnetic Field. <i>Geophysical Research Letters</i> , 2018, 45, 8729-8737.	1.5	37
147	Direct measurements of two-way wave-particle energy transfer in a collisionless space plasma. <i>Science</i> , 2018, 361, 1000-1003.	6.0	36
148	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
149	High-resolution Measurements of the Cross-shock Potential, Ion Reflection, and Electron Heating at an Interplanetary Shock by MMS. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 3961-3978.	0.8	36
150	Observations of Particle Acceleration in Magnetic Reconnection-driven Turbulence. <i>Astrophysical Journal</i> , 2020, 898, 154.	1.6	36
151	A telescopic and microscopic view of a magnetospheric substorm on 31 March 2001. <i>Geophysical Research Letters</i> , 2002, 29, 9-1-9-4.	1.5	35
152	The First two Years of Image. <i>Space Science Reviews</i> , 2003, 109, 1-24.	3.7	35
153	Signatures of complex magnetic topologies from multiple reconnection sites induced by Kelvin-Helmholtz instability. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 9926-9939.	0.8	35
154	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
155	Electron-Driven Dissipation in a Tailward Flow Burst. <i>Geophysical Research Letters</i> , 2019, 46, 5698-5706.	1.5	35
156	MMS observations of electron scale magnetic cavity embedded in proton scale magnetic cavity. <i>Nature Communications</i> , 2019, 10, 1040.	5.8	35
157	MMS Observation of Asymmetric Reconnection Supported by Electron Pressure Divergence. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 1806-1821.	0.8	34
158	Guide Field Reconnection: Exhaust Structure and Heating. <i>Geophysical Research Letters</i> , 2018, 45, 4569-4577.	1.5	34
159	Intense Electric Fields and Electron-Scale Substructure Within Magnetotail Flux Ropes as Revealed by the Magnetospheric Multiscale Mission. <i>Geophysical Research Letters</i> , 2018, 45, 8783-8792.	1.5	34
160	Structure of the Current Sheet in the 11 July 2017 Electron Diffusion Region Event. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 1173-1186.	0.8	34
161	Three-dimensional Magnetic Reconnection With a Spatially Confined X-line Extent: Implications for Dipolarizing Flux Bundles and the Dawn-Dusk Asymmetry. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 2819-2830.	0.8	34
162	Solar wind interaction with comet 67P: Impacts of corotating interaction regions. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 949-965.	0.8	33

#	ARTICLE	IF	CITATIONS
163	The substructure of a flux transfer event observed by the MMS spacecraft. <i>Geophysical Research Letters</i> , 2016, 43, 9434-9443.	1.5	33
164	Electron Diffusion Regions in Magnetotail Reconnection Under Varying Guide Fields. <i>Geophysical Research Letters</i> , 2019, 46, 6230-6238.	1.5	33
165	Multi-instrument analysis of plasma parameters in Saturn's equatorial, inner magnetosphere using corrections for spacecraft potential and penetrating background radiation. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 3683-3707.	0.8	32
166	Observation of high-frequency electrostatic waves in the vicinity of the reconnection ion diffusion region by the spacecraft of the Magnetospheric Multiscale (MMS) mission. <i>Geophysical Research Letters</i> , 2016, 43, 4808-4815.	1.5	32
167	Magnetospheric ion influence at the dayside magnetopause. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 8617-8631.	0.8	32
168	Multiscale Currents Observed by MMS in the Flow Braking Region. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 1260-1278.	0.8	32
169	Magnetospheric Multiscale Observations of an Ion Diffusion Region With Large Guide Field at the Magnetopause: Current System, Electron Heating, and Plasma Waves. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 1834-1852.	0.8	32
170	Parallel Electron Heating by Tangential Discontinuity in the Turbulent Magnetosheath. <i>Astrophysical Journal Letters</i> , 2019, 877, L16.	3.0	32
171	High-Frequency Wave Generation in Magnetotail Reconnection: Linear Dispersion Analysis. <i>Geophysical Research Letters</i> , 2019, 46, 4089-4097.	1.5	32
172	Multispacecraft Analysis of Electron Holes. <i>Geophysical Research Letters</i> , 2019, 46, 55-63.	1.5	32
173	First Measurements of Electrons and Waves inside an Electrostatic Solitary Wave. <i>Physical Review Letters</i> , 2020, 124, 095101.	2.9	32
174	Statistics of Reconnecting Current Sheets in the Transition Region of Earth's Bow Shock. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA027119.	0.8	32
175	On the cause of Saturn's plasma periodicity. <i>Geophysical Research Letters</i> , 2008, 35, .	1.5	31
176	Lower Hybrid Drift Waves and Electromagnetic Electron Space-Phase Holes Associated With Dipolarization Fronts and Field-Aligned Currents Observed by the Magnetospheric Multiscale Mission During a Substorm. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 12,236.	0.8	31
177	Interaction of Magnetic Flux Ropes Via Magnetic Reconnection Observed at the Magnetopause. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 10,436.	0.8	31
178	Electron Phase-Space Holes in Three Dimensions: Multispacecraft Observations by Magnetospheric Multiscale. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 9963-9978.	0.8	31
179	Observations of Flux Ropes With Strong Energy Dissipation in the Magnetotail. <i>Geophysical Research Letters</i> , 2019, 46, 580-589.	1.5	31
180	Electron Heating by Debye-Scale Turbulence in Guide-Field Reconnection. <i>Physical Review Letters</i> , 2020, 124, 045101.	2.9	31

#	ARTICLE	IF	CITATIONS
181	Transient, small-scale field-aligned currents in the plasma sheet boundary layer during storm time substorms. <i>Geophysical Research Letters</i> , 2016, 43, 4841-4849.	1.5	30
182	A telescopic and microscopic examination of acceleration in the June 2015 geomagnetic storm: Magnetospheric Multiscale and Van Allen Probes study of substorm particle injection. <i>Geophysical Research Letters</i> , 2016, 43, 6051-6059.	1.5	30
183	High-resolution Statistics of Solar Wind Turbulence at Kinetic Scales Using the Magnetospheric Multiscale Mission. <i>Astrophysical Journal Letters</i> , 2017, 844, L9.	3.0	30
184	Large-Amplitude High-Frequency Waves at Earth's Magnetopause. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 2630-2657.	0.8	30
185	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.	1.5	30
186	Composition of the Solar Wind. <i>Geophysical Monograph Series</i> , 0, , 133-141.	0.1	29
187	EMIC Waves in the Outer Magnetosphere: Observations of an Off-Equator Source Region. <i>Geophysical Research Letters</i> , 2019, 46, 5707-5716.	1.5	29
188	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
189	A New Method of 3D Magnetic Field Reconstruction. <i>Geophysical Research Letters</i> , 2020, 47, e2019GL085542.	1.5	29
190	Magnetospheric imaging: Promise to reality. <i>Reviews of Geophysics</i> , 2005, 43, .	9.0	28
191	Decay of mesoscale flux transfer events during quasi-continuous spatially extended reconnection at the magnetopause. <i>Geophysical Research Letters</i> , 2016, 43, 4755-4762.	1.5	28
192	Ion chemistry in the coma of comet 67P near perihelion. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 462, S67-S77.	1.6	28
193	Ion Kinetics in a Hot Flow Anomaly: MMS Observations. <i>Geophysical Research Letters</i> , 2018, 45, 11,520.	1.5	28
194	Electron Scattering by Low-frequency Whistler Waves at Earth's Bow Shock. <i>Astrophysical Journal</i> , 2019, 886, 53.	1.6	28
195	Reconstruction of the electron diffusion region observed by the Magnetospheric Multiscale spacecraft: First results. <i>Geophysical Research Letters</i> , 2017, 44, 4566-4574.	1.5	27
196	The Effect of a Guide Field on Local Energy Conversion During Asymmetric Magnetic Reconnection: Particle-in-Cell Simulations. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 11,523.	0.8	27
197	Large-Scale Survey of the Structure of the Dayside Magnetopause by MMS. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 2018-2033.	0.8	27
198	On the role of separatrix instabilities in heating the reconnection outflow region. <i>Physics of Plasmas</i> , 2018, 25, .	0.7	27

#	ARTICLE	IF	CITATIONS
199	Generation of Electron Whistler Waves at the Mirror Mode Magnetic Holes: MMS Observations and PIC Simulation. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 6383-6393.	0.8	27
200	Particle Acceleration in Strong Turbulence in the Earth's Magnetotail. <i>Astrophysical Journal</i> , 2020, 898, 153.	1.6	27
201	Observation of charged nanograins at comet 67P/Churyumov-Gerasimenko. <i>Geophysical Research Letters</i> , 2015, 42, 6575-6581.	1.5	26
202	Observations of large-amplitude, parallel, electrostatic waves associated with the Kelvin-Helmholtz instability by the magnetospheric multiscale mission. <i>Geophysical Research Letters</i> , 2016, 43, 8859-8866.	1.5	26
203	Structure and evolution of flux transfer events near dayside magnetic reconnection dissipation region: MMS observations. <i>Geophysical Research Letters</i> , 2017, 44, 5951-5959.	1.5	26
204	The MMS Dayside Magnetic Reconnection Locations During Phase 1 and Their Relation to the Predictions of the Maximum Magnetic Shear Model. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 11,991.	0.8	26
205	The Properties of Lion Roars and Electron Dynamics in Mirror Mode Waves Observed by the Magnetospheric MultiScale Mission. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 93-103.	0.8	26
206	Localized and Intense Energy Conversion in the Diffusion Region of Asymmetric Magnetic Reconnection. <i>Geophysical Research Letters</i> , 2018, 45, 5260-5267.	1.5	26
207	Electron Bernstein waves driven by electron crescents near the electron diffusion region. <i>Nature Communications</i> , 2020, 11, 141.	5.8	26
208	Magnetospheric Multiscale (MMS) Observations of Magnetic Reconnection in Foreshock Transients. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2020JA027822.	0.8	26
209	Magnetic Reconnection Inside a Flux Rope Induced by Kelvin-Helmholtz Vortices. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA027665.	0.8	26
210	Energy partitioning constraints at kinetic scales in low- $\beta^2$ turbulence. <i>Physics of Plasmas</i> , 2018, 25, .	0.7	25
211	Magnetospheric Multiscale Observation of Kinetic Signatures in the Alfvén Vortex. <i>Astrophysical Journal Letters</i> , 2019, 871, L22.	3.0	25
212	Reconstruction of the Electron Diffusion Region of Magnetotail Reconnection Seen by the MMS Spacecraft on 11 July 2017. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 122-138.	0.8	25
213	Energy budget and mechanisms of cold ion heating in asymmetric magnetic reconnection. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 9396-9413.	0.8	24
214	Characteristics of the Flank Magnetopause: MMS Results. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA027623.	0.8	24
215	Observations of energetic particle escape at the magnetopause: Early results from the MMS Energetic Ion Spectrometer (EIS). <i>Geophysical Research Letters</i> , 2016, 43, 5960-5968.	1.5	23
216	PLASMA ENVIRONMENT AROUND COMET 67P/CHURYUMOV-GERASIMENKO AT PERIHELION: MODEL COMPARISON WITH ROSETTA DATA. <i>Astronomical Journal</i> , 2017, 153, 30.	1.9	23

#	ARTICLE	IF	CITATIONS
217	Small-scale Flux Transfer Events Formed in the Reconnection Exhaust Region Between Two X Lines. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 8473-8488.	0.8	23
218	New Insights into the Nature of Turbulence in the Earth's Magnetosheath Using Magnetospheric MultiScale Mission Data. <i>Astrophysical Journal</i> , 2018, 859, 127.	1.6	23
219	Electron Vorticity Indicative of the Electron Diffusion Region of Magnetic Reconnection. <i>Geophysical Research Letters</i> , 2019, 46, 6287-6296.	1.5	23
220	Electron Inflow Velocities and Reconnection Rates at Earth's Magnetopause and Magnetosheath. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL089082.	1.5	23
221	The Dynamics of a High Mach Number Quasi-perpendicular Shock: MMS Observations. <i>Astrophysical Journal</i> , 2021, 908, 40.	1.6	23
222	Magnetospheric Multiscale Mission observations and non-force free modeling of a flux transfer event immersed in a super-Alfvénic flow. <i>Geophysical Research Letters</i> , 2016, 43, 6070-6077.	1.5	22
223	The nonlinear behavior of whistler waves at the reconnecting dayside magnetopause as observed by the Magnetospheric Multiscale mission: A case study. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 5487-5501.	0.8	22
224	Evolution of the Earth's Magnetosheath Turbulence: A Statistical Study Based on MMS Observations. <i>Astrophysical Journal Letters</i> , 2020, 898, L43.	3.0	22
225	Energy dissipation in turbulent reconnection. <i>Physics of Plasmas</i> , 2021, 28, .	0.7	22
226	Negatively charged nano-grains at 67P/Churyumov-Gerasimenko. <i>Astronomy and Astrophysics</i> , 2015, 583, A23.	2.1	21
227	Energetic electron acceleration observed by MMS in the vicinity of an X-line crossing. <i>Geophysical Research Letters</i> , 2016, 43, 7356-7363.	1.5	21
228	The response time of the magnetopause reconnection location to changes in the solar wind: MMS case study. <i>Geophysical Research Letters</i> , 2016, 43, 4673-4682.	1.5	21
229	Quantitative analysis of a Hall system in the exhaust of asymmetric magnetic reconnection. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 5277-5289.	0.8	21
230	Magnetospheric Multiscale Observations of Turbulence in the Magnetosheath on Kinetic Scales. <i>Astrophysical Journal Letters</i> , 2018, 864, L29.	3.0	21
231	MMS Observations of Beta-dependent Constraints on Ion Temperature Anisotropy in Earth's Magnetosheath. <i>Astrophysical Journal</i> , 2018, 866, 25.	1.6	21
232	Observational Evidence of Large-scale Multiple Reconnection at the Earth's Dayside Magnetopause. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 8407-8421.	0.8	21
233	Mass Loading the Earth's Dayside Magnetopause Boundary Layer and Its Effect on Magnetic Reconnection. <i>Geophysical Research Letters</i> , 2019, 46, 6204-6213.	1.5	21
234	MMS Observations of Kinetic-size Magnetic Holes in the Terrestrial Magnetotail Plasma Sheet. <i>Astrophysical Journal</i> , 2019, 875, 113.	1.6	21



#	ARTICLE	IF	CITATIONS
235	Electron Acceleration and Thermalization at Magnetotail Separatrices. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA027440.	0.8	21
236	Solitary Magnetic Structures at Quasi-Parallel Collisionless Shocks: Formation. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL090800.	1.5	21
237	Impact of a cometary outburst on its ionosphere. <i>Astronomy and Astrophysics</i> , 2017, 607, A34.	2.1	21
238	Direct Measurement of the Solar-wind Taylor Microscale Using MMS Turbulence Campaign Data. <i>Astrophysical Journal</i> , 2020, 899, 63.	1.6	21
239	Strong current sheet at a magnetosheath jet: Kinetic structure and electron acceleration. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 9608-9618.	0.8	20
240	The physical foundation of the reconnection electric field. <i>Physics of Plasmas</i> , 2018, 25, .	0.7	20
241	Spacecraft Observations of Oblique Electron Beams Breaking the Frozen-In Law During Asymmetric Reconnection. <i>Physical Review Letters</i> , 2018, 120, 055101.	2.9	20
242	Electron Energization at a Reconnecting Magnetosheath Current Sheet. <i>Geophysical Research Letters</i> , 2018, 45, 8081-8090.	1.5	20
243	A Survey of Plasma Waves Appearing Near Dayside Magnetopause Electron Diffusion Region Events. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 7837-7849.	0.8	20
244	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.	1.5	20
245	On the Ubiquity of Magnetic Reconnection Inside Flux Transfer Event-Like Structures at the Earth's Magnetopause. <i>Geophysical Research Letters</i> , 2020, 47, e2019GL086726.	1.5	20
246	Generation of electron conical distributions by upper hybrid waves in the Earth's polar region. <i>Journal of Geophysical Research</i> , 1988, 93, 10025-10028.	3.3	19
247	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
248	Comparison of Magnetospheric Multiscale ion jet signatures with predicted reconnection site locations at the magnetopause. <i>Geophysical Research Letters</i> , 2016, 43, 5997-6004.	1.5	19
249	Cold Ionospheric Ions in the Magnetic Reconnection Outflow Region. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 10,194.	0.8	19
250	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
251	Local Excitation of Whistler Mode Waves and Associated Langmuir Waves at Dayside Reconnection Regions. <i>Geophysical Research Letters</i> , 2018, 45, 8793-8802.	1.5	19
252	Ion-Scale Kinetic Alfvén Turbulence: MMS Measurements of the Alfvén Ratio in the Magnetosheath. <i>Geophysical Research Letters</i> , 2018, 45, 7974-7984.	1.5	19

#	ARTICLE	IF	CITATIONS
253	Electron-scale Vertical Current Sheets in a Bursty Bulk Flow in the Terrestrial Magnetotail. <i>Astrophysical Journal Letters</i> , 2019, 872, L26.	3.0	19
254	Evolution of a typical ion-scale magnetic flux rope caused by thermal pressure enhancement. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 2040-2050.	0.8	18
255	Magnetospheric Ion Evolution Across the Low-Latitude Boundary Layer Separatrix. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 10,247.	0.8	18
256	Examining Coherency Scales, Substructure, and Propagation of Whistler Mode Chorus Elements With Magnetospheric Multiscale (MMS). <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 11,201.	0.8	18
257	Dominance of high-energy (>150 keV) heavy ion intensities in Earth's middle to outer magnetosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 9282-9293.	0.8	18
258	Structure and Dissipation Characteristics of an Electron Diffusion Region Observed by MMS During a Rapid, Normal-Incidence Magnetopause Crossing. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 11,901.	0.8	18
259	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
260	MMS Observations of Harmonic Electromagnetic Ion Cyclotron Waves. <i>Geophysical Research Letters</i> , 2018, 45, 8764-8772.	1.5	18
261	High-Frequency Wave Generation in Magnetotail Reconnection: Nonlinear Harmonics of Upper Hybrid Waves. <i>Geophysical Research Letters</i> , 2019, 46, 7873-7882.	1.5	18
262	Whistler Waves Driven by Field-Aligned Streaming Electrons in the Near-Earth Magnetotail Reconnection. <i>Geophysical Research Letters</i> , 2019, 46, 5045-5054.	1.5	18
263	Magnetic Reconnection in Three Dimensions: Modeling and Analysis of Electromagnetic Drift Waves in the Adjacent Current Sheet. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 10085-10103.	0.8	18
264	Monitoring the Spatio-temporal Evolution of a Reconnection X-line in Space. <i>Astrophysical Journal Letters</i> , 2020, 899, L34.	3.0	18
265	Technique for increasing dynamic range of space-borne ion composition instruments. <i>Review of Scientific Instruments</i> , 2005, 76, 103301.	0.6	17
266	Shift of the magnetopause reconnection line to the winter hemisphere under southward IMF conditions: Geotail and MMS observations. <i>Geophysical Research Letters</i> , 2016, 43, 5581-5588.	1.5	17
267	Simultaneous Remote Observations of Intense Reconnection Effects by DMSP and MMS Spacecraft During a Storm Time Substorm. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 10891-10909.	0.8	17
268	Magnetotail Hall Physics in the Presence of Cold Ions. <i>Geophysical Research Letters</i> , 2018, 45, 10,941.	1.5	17
269	Kinetic Range Spectral Features of Cross Helicity Using the Magnetospheric Multiscale Spacecraft. <i>Physical Review Letters</i> , 2018, 121, 265101.	2.9	17
270	Perpendicular Current Reduction Caused by Cold Ions of Ionospheric Origin in Magnetic Reconnection at the Magnetopause: Particle-in-Cell Simulations and Spacecraft Observations. <i>Geophysical Research Letters</i> , 2018, 45, 10,033.	1.5	17



#	ARTICLE	IF	CITATIONS
271	Crescentâ€Shaped Electron Distributions at the Nonreconnecting Magnetopause: Magnetospheric Multiscale Observations. <i>Geophysical Research Letters</i> , 2019, 46, 3024-3032.	1.5	17
272	Electrostatic Spacecraft Potential Structure and Wake Formation Effects for Characterization of Cold Ion Beams in the Earth's Magnetosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 10048-10062.	0.8	17
273	Energy Flux Densities near the Electron Dissipation Region in Asymmetric Magnetopause Reconnection. <i>Physical Review Letters</i> , 2020, 125, 265102.	2.9	17
274	Bifurcated cusp ion signatures: Evidence for re-reconnection?. <i>Geophysical Research Letters</i> , 1997, 24, 1471-1474.	1.5	16
275	Lowâ€energy electrons in Saturn's inner magnetosphere and their role in interchange injections. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	16
276	Magnetospheric Multiscale analysis of intense fieldâ€aligned Poynting flux near the Earth's plasma sheet boundary. <i>Geophysical Research Letters</i> , 2017, 44, 7106-7113.	1.5	16
277	Negative Potential Solitary Structures in the Magnetosheath With Large Parallel Width. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 132-145.	0.8	16
278	Plasma Density Estimates From Spacecraft Potential Using MMS Observations in the Dayside Magnetosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 2620-2629.	0.8	16
279	Impulsively Reflected Ions: A Plausible Mechanism for Ion Acoustic Wave Growth in Collisionless Shocks. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 1855-1865.	0.8	16
280	MMS SITL Ground Loop: Automating the Burst Data Selection Process. <i>Frontiers in Astronomy and Space Sciences</i> , 2020, 7, 54.	1.1	16
281	Wave telescope technique for MMS magnetometer. <i>Geophysical Research Letters</i> , 2016, 43, 4774-4780.	1.5	15
282	Dayside response of the magnetosphere to a small shock compression: Van Allen Probes, Magnetospheric MultiScale, and GOESâ€13. <i>Geophysical Research Letters</i> , 2017, 44, 8712-8720.	1.5	15
283	Electron Reconnection in the Magnetopause Current Layer. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 9222-9238.	0.8	15
284	Investigation of Massâ€Chargeâ€Dependent Escape of Energetic Ions Across the Magnetopauses of Earth and Jupiter. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 5539-5567.	0.8	15
285	Dissipation of Earthward Propagating Flux Rope Through Reâ€reconnection with Geomagnetic Field: An MMS Case Study. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 7477-7493.	0.8	15
286	Comparative Analysis of the Various Generalized Ohm's Law Terms in Magnetosheath Turbulence as Observed by Magnetospheric Multiscale. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, 2020JA028447.	0.8	15
287	Electronâ€Only Tail Current Sheets and Their Temporal Evolution. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL091364.	1.5	15
288	MMS Observations of the Multiscale Wave Structures and Parallel Electron Heating in the Vicinity of the Southern Exterior Cusp. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2019JA027698.	0.8	15

#	ARTICLE	IF	CITATIONS
289	Structure of a Perturbed Magnetic Reconnection Electron Diffusion Region in the Earth's Magnetotail. <i>Physical Review Letters</i> , 2021, 127, 215101.	2.9	15
290	Direct observations of anomalous resistivity and diffusion in collisionless plasma. <i>Nature Communications</i> , 2022, 13, .	5.8	15
291	Overlapping ion populations in the cusp: polar/TIMAS results. <i>Geophysical Research Letters</i> , 1998, 25, 1621-1624.	1.5	14
292	Steepening of waves at the duskside magnetopause. <i>Geophysical Research Letters</i> , 2016, 43, 7373-7380.	1.5	14
293	Statistical analysis of MMS observations of energetic electron escape observed at/beyond the dayside magnetopause. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 9440-9463.	0.8	14
294	Stationarity of the Reconnection X-Line at Earth's Magnetopause for Southward IMF. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 8524-8534.	0.8	14
295	High-density $O^{+}$ in Earth's outer magnetosphere and its effect on dayside magnetopause magnetic reconnection. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 10257-10269.	0.8	14
296	Neutral Atom Imaging of the Solar Wind-Magnetosphere-Exosphere Interaction Near the Subsolar Magnetopause. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL089362.	1.5	14
297	Day-night asymmetries of low-energy electrons in Saturn's inner magnetosphere. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	1.5	13
298	Study of the spacecraft potential under active control and plasma density estimates during the MMS commissioning phase. <i>Geophysical Research Letters</i> , 2016, 43, 4858-4864.	1.5	13
299	Microinjections observed by MMS FEPS in the dusk to midnight region. <i>Geophysical Research Letters</i> , 2016, 43, 6078-6086.	1.5	13
300	Statistical Study of the Properties of Magnetosheath Lion Roars. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 5435-5451.	0.8	13
301	Self-consistent kinetic model of nested electron- and ion-scale magnetic cavities in space plasmas. <i>Nature Communications</i> , 2020, 11, 5616.	5.8	13
302	BBF Deceleration Down-Tail of $X < \hat{a} \sim 15 R_E$ From MMS Observation. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA026837.	0.8	13
303	Upper-Hybrid Waves Driven by Meandering Electrons Around Magnetic Reconnection X Line. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL093164.	1.5	13
304	Cross-scale Dynamics Driven by Plasma Jet Braking in Space. <i>Astrophysical Journal</i> , 2022, 926, 198.	1.6	13
305	Rosetta Alice/VIRTIS observations of the water vapour UV electroglow emissions around comet 67P/Churyumov-Gerasimenko. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 469, S416-S426.	1.6	12
306	The Transition Between Antiparallel and Component Magnetic Reconnection at Earth's Dayside Magnetopause. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 10,177.	0.8	12

#	ARTICLE	IF	CITATIONS
307	Magnetic depression and electron transport in an ion-scale flux rope associated with Kelvinâ€Helmholtz waves. <i>Annales Geophysicae</i> , 2018, 36, 879-889.	0.6	12
308	Mechanism of Reconnection on Kinetic Scales Based on Magnetospheric Multiscale Mission Observations. <i>Astrophysical Journal Letters</i> , 2019, 885, L26.	3.0	12
309	Observations of the Source Region of Whistler Mode Waves in Magnetosheath Mirror Structures. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA027488.	0.8	12
310	Statistical Survey of Collisionless Dissipation in the Terrestrial Magnetosheath. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA029000.	0.8	12
311	Sequential Observations of Flux Transfer Events, Polewardâ€Moving Auroral Forms, and Polar Cap Patches. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA027674.	0.8	12
312	Ion-scale Current Structures in Short Large-amplitude Magnetic Structures. <i>Astrophysical Journal</i> , 2020, 898, 121.	1.6	12
313	Proton precipitation during transpolar auroral events: Observations with the IMAGE-FLUJ imagers. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	11
314	Current sheets in comet 67P/Churyumovâ€Gerasimenko's coma. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 3308-3321.	0.8	11
315	Population Mixing in Asymmetric Magnetic Reconnection with a Guide Field. <i>Physical Review Letters</i> , 2017, 118, 145101.	2.9	11
316	MMS Observation of Shockâ€Reflected He<sup>++</sup> at Earth's Quasiâ€Perpendicular Bow Shock. <i>Geophysical Research Letters</i> , 2018, 45, 49-55.	1.5	11
317	Modulation of Ion and Electron Pitch Angle in the Presence of Large-amplitude, Low-frequency, Left-hand Circularly Polarized Electromagnetic Waves Observed by MMS. <i>Astrophysical Journal</i> , 2018, 867, 58.	1.6	11
318	In situ spacecraft observations of a structured electron diffusion region during magnetopause reconnection. <i>Physical Review E</i> , 2019, 99, 043204.	0.8	11
319	Far-ultraviolet aurora identified at comet 67P/Churyumov-Gerasimenko. <i>Nature Astronomy</i> , 2020, 4, 1084-1091.	4.2	11
320	In Situ Measurement of Curvature of Magnetic Field in Turbulent Space Plasmas: A Statistical Study. <i>Astrophysical Journal Letters</i> , 2020, 893, L25.	3.0	11
321	Energy Dissipation via Magnetic Reconnection Within the Coherent Structures of the Magnetosheath Turbulence. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028860.	0.8	11
322	Electrodynamic context of magnetopause dynamics observed by magnetospheric multiscale. <i>Geophysical Research Letters</i> , 2016, 43, 5988-5996.	1.5	10
323	Structure, force balance, and topology of Earthâ€™s magnetopause. <i>Science</i> , 2017, 356, 960-963.	6.0	10
324	On Multiple Hallâ€Like Electron Currents and Tripolar Guide Magnetic Field Perturbations During Kelvinâ€Helmholtz Waves. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 1305-1324.	0.8	10

#	ARTICLE	IF	CITATIONS
325	Electron Dynamics Within the Electron Diffusion Region of Asymmetric Reconnection. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 146-162.	0.8	10
326	Energy Conversion and Electron Acceleration in the Magnetopause Reconnection Diffusion Region. <i>Geophysical Research Letters</i> , 2019, 46, 10274-10282.	1.5	10
327	Prolonged Kelvinâ€Helmholtz Waves at Dawn and Dusk Flank Magnetopause: Simultaneous Observations by MMS and THEMIS. <i>Astrophysical Journal</i> , 2019, 875, 57.	1.6	10
328	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
329	Intermittency and Ion Temperatureâ€Anisotropy Instabilities: Simulation and Magnetosheath Observation. <i>Astrophysical Journal</i> , 2020, 895, 83.	1.6	10
330	Extension of the Electron Diffusion Region in a Guide Field Magnetic Reconnection at Magnetopause. <i>Astrophysical Journal Letters</i> , 2020, 892, L5.	3.0	10
331	Characteristics of Energetic Electrons Near Active Magnetotail Reconnection Sites: Tracers of a Complex Magnetic Topology and Evidence of Localized Acceleration. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL090089.	1.5	10
332	Determining EMIC Wave Vector Properties Through Multiâ€Point Measurements: The Wave Curl Analysis. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028922.	0.8	10
333	Energy Flux Densities at Dipolarization Fronts. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL094932.	1.5	10
334	Magnetic Reconnection Inside a Flux Transfer Eventâ€Like Structure in Magnetopause Kelvinâ€Helmholtz Waves. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA027527.	0.8	10
335	MMS Direct Observations of Kinetic-scale Shock Self-reformation. <i>Astrophysical Journal Letters</i> , 2020, 901, L6.	3.0	10
336	Electronâ€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, .	0.8	10
337	Sign Singularity of the Local Energy Transfer in Space Plasma Turbulence. <i>Frontiers in Physics</i> , 2019, 7, .	1.0	9
338	Carriers of the Fieldâ€Aligned Currents in the Plasma Sheet Boundary Layer: An MMS Multicase Study. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 2873-2886.	0.8	9
339	Small Spatialâ€Scale Fieldâ€Aligned Currents in the Plasma Sheet Boundary Layer Surveyed by Magnetosphere Multiscale Spacecraft. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 9976-9985.	0.8	9
340	Anisotropic Vorticity Within Bursty Bulk Flow Turbulence. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2020JA028255.	0.8	9
341	Scaling and Anisotropy of Solar Wind Turbulence at Kinetic Scales during the MMS Turbulence Campaign. <i>Astrophysical Journal</i> , 2020, 903, 127.	1.6	9
342	Parallel electron heating in the magnetospheric inflow region. <i>Geophysical Research Letters</i> , 2017, 44, 4384-4392.	1.5	8

#	ARTICLE	IF	CITATIONS
343	Differing Properties of Two Ion-Scale Magnetopause Flux Ropes. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 114-131.	0.8	8
344	MMS Measurements and Modeling of Peculiar Electromagnetic Ion Cyclotron Waves. <i>Geophysical Research Letters</i> , 2019, 46, 11622-11631.	1.5	8
345	Magnetospheric Multiscale Observation of an Electron Diffusion Region at High Latitudes. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL087268.	1.5	8
346	Charge-State-Dependent Energization of Suprathermal Ions During Substorm Injections Observed by MMS in the Magnetotail. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2020JA028144.	0.8	8
347	Characteristics of Minor Ions and Electrons in Flux Transfer Events Observed by the Magnetospheric Multiscale Mission. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2020JA027778.	0.8	8
348	Characteristics of Energetic Electrons Near Active Magnetotail Reconnection Sites: Statistical Evidence for Local Energization. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL090087.	1.5	8
349	An Encounter With the Ion and Electron Diffusion Regions at a Flapping and Twisted Tail Current Sheet. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028903.	0.8	8
350	Long and Active Magnetopause Reconnection X-Lines During Changing IMF Conditions. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028926.	0.8	8
351	Collisionless relaxation of a disequibrated current sheet and implications for bifurcated structures. <i>Nature Communications</i> , 2021, 12, 3774.	5.8	8
352	Thin Current Sheet Behind the Dipolarization Front. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2021JA029518.	0.8	8
353	Stable reconnection at the dusk flank magnetopause. <i>Geophysical Research Letters</i> , 2016, 43, 9374-9382.	1.5	7
354	Hodographic approach for determining spacecraft trajectories through magnetic reconnection diffusion regions. <i>Geophysical Research Letters</i> , 2017, 44, 1625-1633.	1.5	7
355	Four-Spacecraft Measurements of the Shape and Dimensionality of Magnetic Structures in the Near-Earth Plasma Environment. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 6850-6868.	0.8	7
356	The 18 November 2015 Magnetopause Crossing: The GEM Dayside Kinetic Challenge Event Observed by MMS/HPCA. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA027617.	0.8	7
357	Observation of an inertial-range energy cascade within a reconnection jet in the Earth's magnetotail. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2020, 500, L6-L10.	1.2	7
358	Parallel Electrostatic Waves Associated With Turbulent Plasma Mixing in the Kelvin-Helmholtz Instability. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL087837.	1.5	7
359	Latitudinal Dependence of the Kelvin-Helmholtz Instability and Beta Dependence of Vortex-Induced High-Guide Field Magnetic Reconnection. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA027333.	0.8	7
360	Asymmetric Reconnection Within a Flux Rope-Type Dipolarization Front. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA027296.	0.8	7

#	ARTICLE	IF	CITATIONS
361	Two-Dimensional Velocity of the Magnetic Structure Observed on July 11, 2017 by the Magnetospheric Multiscale Spacecraft. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028705.	0.8	7
362	Identification of Electron Diffusion Regions with a Machine Learning Approach on MMS Data at the Earth's Magnetopause. <i>Earth and Space Science</i> , 2021, 8, e2020EA001530.	1.1	7
363	Theory, observations, and simulations of kinetic entropy in a magnetotail electron diffusion region. <i>Physics of Plasmas</i> , 2022, 29, .	0.7	7
364	Electron energization and thermal to non-thermal energy partition during earth's magnetotail reconnection. <i>Physics of Plasmas</i> , 2022, 29, .	0.7	7
365	Analytical model of rotating two-cell convection at Saturn. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 1980-1993.	0.8	6
366	Assessing the Time Dependence of Reconnection With Poynting's Theorem: MMS Observations. <i>Geophysical Research Letters</i> , 2018, 45, 2886-2892.	1.5	6
367	The Extra-Magnetospheric Ion Environment as Observed by the Magnetospheric Multiscale Mission Hot Plasma Composition Analyzer (MMS-HPCA). <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 1509-1524.	0.8	6
368	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
369	Acceleration of Interstellar Pickup He <sup>+</sup> at Earth's Perpendicular Bow Shock. <i>Geophysical Research Letters</i> , 2019, 46, 10735-10743.	1.5	6
370	Lower Hybrid Waves at the Magnetosheath Separatrix Region. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL089880.	1.5	6
371	Quantifying Event-Specific Radial Diffusion Coefficients of Radiation Belt Electrons With the PPMLR-MHD Simulation. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA027634.	0.8	6
372	High-Frequency Waves Driven by Agyrotropic Electrons Near the Electron Diffusion Region. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL087111.	1.5	6
373	Simultaneous Observation of Negatively and Positively Charged Nanograins at Comet 67P/Churyumov-Gerasimenko. <i>Geophysical Research Letters</i> , 2020, 47, e2019GL086147.	1.5	6
374	A Possible Mechanism on the Detachment Between a Subauroral Proton Arc and the Auroral Oval. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028493.	0.8	6
375	Statistical Characteristics of Field-Aligned Currents in the Plasma Sheet Boundary Layer. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028319.	0.8	6
376	Multi-instrument analysis of far-ultraviolet aurora in the southern hemisphere of comet 67P/Churyumov-Gerasimenko. <i>Astronomy and Astrophysics</i> , 2021, 647, A119.	2.1	6
377	Statistical Relationship Between Interplanetary Magnetic Field Conditions and the Helicity Sign of Flux Transfer Event Flux Ropes. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL091257.	1.5	6
378	Kinetic Interaction of Cold and Hot Protons With an Oblique EMIC Wave Near the Dayside Reconnecting Magnetopause. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL092376.	1.5	6



#	ARTICLE	IF	CITATIONS
379	Energy Transfer Between Hot Protons and Electromagnetic Ion Cyclotron Waves in Compressional Pc5 Ultra-low Frequency Waves. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028912.	0.8	6
380	Direct Multipoint Observations Capturing the Reformation of a Supercritical Fast Magnetosonic Shock. <i>Astrophysical Journal Letters</i> , 2021, 911, L31.	3.0	6
381	Microscale Processes Determining Macroscale Evolution of Magnetic Flux Tubes along Earth's Magnetopause. <i>Astrophysical Journal</i> , 2021, 914, 26.	1.6	6
382	Nonlinear Magnetic Gradients and Complete Magnetic Geometry From Multispacecraft Measurements. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028846.	0.8	6
383	Multi-beam energy moments of measured compound ion velocity distributions. <i>Physics of Plasmas</i> , 2021, 28, 102305.	0.7	6
384	Reconnection X-Line Orientations at the Earth's Magnetopause. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2021JA029789.	0.8	6
385	Magnetic Field Annihilation in a Magnetotail Electron Diffusion Region With Electron-Scale Magnetic Island. <i>Journal of Geophysical Research: Space Physics</i> , 2022, 127, .	0.8	6
386	Inverse energy dispersion of energetic ions observed in the magnetosheath. <i>Geophysical Research Letters</i> , 2016, 43, 7338-7347.	1.5	5
387	Two years of solar wind and pickup ion measurements at comet 67P/Churyumov-Gerasimenko. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 469, S262-S267.	1.6	5
388	Magnetospheric Multiscale Mission Observations of Reconnecting Electric Fields in the Magnetotail on Kinetic Scales. <i>Geophysical Research Letters</i> , 2019, 46, 10295-10302.	1.5	5
389	Evidence for Nonadiabatic Oxygen Energization in the Near-Earth Magnetotail From MMS. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL091697.	1.5	5
390	MMS Observations of Reconnection Separatrix Region in the Magnetotail at Different Distances From the Active Neutral X-Line. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028694.	0.8	5
391	Comparison of MMS Observations of Foreshock Bubbles With a Global Hybrid Simulation. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028848.	0.8	5
392	Application of Cold and Hot Plasma Composition Measurements to Investigate Impacts on Dusk-Side Electromagnetic Ion Cyclotron Waves. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, .	0.8	5
393	MMS Observations of Double Mid-Latitude Reconnection Ion Beams in the Early Non-Linear Phase of the Kelvin-Helmholtz Instability. <i>Frontiers in Astronomy and Space Sciences</i> , 2021, 8, .	1.1	5
394	Measurements of the Net Charge Density of Space Plasmas. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2021JA029511.	0.8	5
395	Investigation of the homogeneity of energy conversion processes at dipolarization fronts from MMS measurements. <i>Physics of Plasmas</i> , 2022, 29, .	0.7	5
396	Fine Structures of the Electron Current Sheet in Magnetotail Guide-Field Reconnection. <i>Geophysical Research Letters</i> , 2022, 49, .	1.5	5

#	ARTICLE	IF	CITATIONS
397	Kelvin-Helmholtz Vortices as an Interplay of Magnetosphere-Ionosphere Coupling. <i>Frontiers in Astronomy and Space Sciences</i> , 0, 9, .	1.1	5
398	A new method to identify flux ropes in space plasmas. <i>Annales Geophysicae</i> , 2018, 36, 1275-1283.	0.6	4
399	Electron-Scale Magnetic Structure Observed Adjacent to an Electron Diffusion Region at the Dayside Magnetopause. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 10153-10169.	0.8	4
400	Statistical Study of Oxygen Ions Abundance and Spatial Distribution in the Dayside Magnetopause Boundary Layer: MMS Observations. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA027323.	0.8	4
401	Electron dynamics near diamagnetic regions of comet 67P/Churyumov- Gerasimenko. <i>Planetary and Space Science</i> , 2020, 187, 104924.	0.9	4
402	Electron Mixing and Isotropization in the Exhaust of Asymmetric Magnetic Reconnection With a Guide Field. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL087159.	1.5	4
403	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
404	MMS Observation on the Cross-Tail Current Sheet Roll-up at the Dipolarization Front. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028796.	0.8	4
405	TRICE 2 Observations of Low-Energy Magnetospheric Ions Within the Cusp. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2021JA029382.	0.8	4
406	Remote Sensing of Magnetic Reconnection in the Magnetotail Using In Situ Multipoint Observations at the Plasma Sheet Boundary Layer. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, .	0.8	4
407	Quantification of Cold-Ion Beams in a Magnetic Reconnection Jet. <i>Frontiers in Astronomy and Space Sciences</i> , 2021, 8, .	1.1	4
408	Vorticity Within Bursty Bulk Flows: Convective Versus Kinetic. <i>Journal of Geophysical Research: Space Physics</i> , 2022, 127, .	0.8	4
409	Multiple Reconnection X-Lines at the Magnetopause and Overlapping Cusp Ion Injections. <i>Journal of Geophysical Research: Space Physics</i> , 2022, 127, .	0.8	4
410	Evidence of $m=1$ density mode (plasma cam) in Saturn's rotating magnetosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 2335-2348.	0.8	3
411	MMS Observations of Reconnection at Dayside Magnetopause Crossings During Transitions of the Solar Wind to Sub-Alfvenic Flow. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 9934-9951.	0.8	3
412	Effects in the Near-Magnetopause Magnetosheath Elicited by Large-Amplitude Alfvénic Fluctuations Terminating in a Field and Flow Discontinuity. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 8983-9004.	0.8	3
413	The $He^{++}/H^{+}$ Density Ratio Across Earth's Subsolar Magnetopause and Its Implications for the Presence of a Mass-Dependent Reflection Coefficient. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 9893-9903.	0.8	3
414	The Effects of Upper-Hybrid Waves on Energy Dissipation in the Electron Diffusion Region. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL089778.	1.5	3



#	ARTICLE	IF	CITATIONS
415	High-Density Magnetospheric He <sup>+</sup> at the Dayside Magnetopause and Its Effect on Magnetic Reconnection. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, .	0.8	3
416	In Situ Evidence of Ion Acceleration between Consecutive Reconnection Jet Fronts. <i>Astrophysical Journal</i> , 2021, 908, 73.	1.6	3
417	Effect of the Electric Field on the Agyrotropic Electron Distributions. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL091437.	1.5	3
418	Electron Trapping in Magnetic Mirror Structures at the Edge of Magnetopause Flux Ropes. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2021JA029182.	0.8	3
419	Bifurcated Current Sheet Observed on the Boundary of Kelvin-Helmholtz Vortices. <i>Frontiers in Astronomy and Space Sciences</i> , 2021, 8, .	1.1	3
420	Spatial evolution of magnetic reconnection diffusion region structures with distance from the X-line. <i>Physics of Plasmas</i> , 2021, 28, .	0.7	3
421	Lower hybrid drift wave motion at a dayside magnetopause x-line with energy conversion dominated by a parallel electric field. <i>Physics of Plasmas</i> , 2022, 29, 012905.	0.7	3
422	Millisecond observations of nonlinear wave-electron interaction in electron phase space holes. <i>Physics of Plasmas</i> , 2022, 29, .	0.7	3
423	Secondary Magnetic Reconnection at Earth's Flank Magnetopause. <i>Frontiers in Astronomy and Space Sciences</i> , 2021, 8, .	1.1	3
424	The EDR inflow region of a reconnecting current sheet in the geomagnetic tail. <i>Physics of Plasmas</i> , 2022, 29, .	0.7	3
425	On the Occurrence of Magnetic Reconnection Along the Terrestrial Magnetopause, Using Magnetospheric Multiscale (MMS) Observations in Proximity to the Reconnection Site. <i>Journal of Geophysical Research: Space Physics</i> , 2022, 127, .	0.8	3
426	EDR signatures observed by MMS in the 16 October event presented in a 2D parametric space. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 3262-3276.	0.8	2
427	Magnetospheric Multiscale observations of energetic oxygen ions at the duskside magnetopause during intense substorms. <i>Annales Geophysicae</i> , 2020, 38, 123-135.	0.6	2
428	Characteristics of Escaping Magnetospheric Ions Associated With Magnetic Field Fluctuations. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA027337.	0.8	2
429	Observations of Mirror Mode Structures in the Dawn-Side Magnetosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028649.	0.8	2
430	Multipoint Density Measurements of Geocoronal Pickup Ions. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL093695.	1.5	2
431	Waves Generated by Electron Beam in a Crater-Shaped Flux Rope. <i>Frontiers in Physics</i> , 2021, 9, .	1.0	2
432	The Occurrence and Prevalence of Time Domain Structures in the Kelvin-Helmholtz Instability at Different Positions Along the Earth's Magnetospheric Flanks. <i>Frontiers in Astronomy and Space Sciences</i> , 2021, 8, .	1.1	2

#	ARTICLE	IF	CITATIONS
433	Observation of Energy Conversion Near the X-line in Asymmetric Guide-field Reconnection. <i>Astrophysical Journal Letters</i> , 2020, 895, L10.	3.0	2
434	H <sup>+</sup> Pitch Angle Distributions in the Outer Magnetosphere Observed by MMS HPCA. <i>Journal of Geophysical Research: Space Physics</i> , 2022, 127, .	0.8	2
435	Radiation belt responses to the solar events of October–November 2003. <i>Geophysical Monograph Series</i> , 2005, , 251-259.	0.1	1
436	Thick escaping magnetospheric ion layer in magnetopause reconnection with MMS observations. <i>Geophysical Research Letters</i> , 2016, 43, 6028-6035.	1.5	1
437	MMS observation of inverse energy dispersion in shock drift accelerated ions. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 3232-3246.	0.8	1
438	A Statistical Study of Slow-Mode Shocks Observed by MMS in the Dayside Magnetopause. <i>Geophysical Research Letters</i> , 2018, 45, 4675-4684.	1.5	1
439	Substorm-Related Near-Earth Reconnection Surge: Combining Telescopic and Microscopic Views. <i>Geophysical Research Letters</i> , 2019, 46, 6239-6247.	1.5	1
440	Origin of Electron-Scale Magnetic Fluctuations Close to an Electron Diffusion Region. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA029046.	0.8	1
441	Anomalous Reconnection Layer at Earth's Dayside Magnetopause. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2021JA029678.	0.8	1
442	The First Two Years of IMAGE. , 2003, , 1-24.		1
443	Mapping MMS Observations of Solitary Waves in Earth's Magnetic Field. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2021JA029389.	0.8	1
444	Key Processes in Solar-Terrestrial Physics. <i>Space Science Reviews</i> , 2011, 158, 1-3.	3.7	0
445	Observations of Modulation of Ion flux in the Coma of Comet 67P/Churyumov–Gerasimenko. <i>Geophysical Research Letters</i> , 0, , .	1.5	0
446	Energetic electron microinjections observed by MMS in the dusk plasma sheet and drift resonance interpretation. <i>Geophysical Research Letters</i> , 0, , .	1.5	0