

J L Burch

List of Publications by Year in descending order

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446
papers

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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. Space Science Reviews, 2016, 199, 5-21.	8.1	1,118
2	Fast Plasma Investigation for Magnetospheric Multiscale. Space Science Reviews, 2016, 199, 331-406.	8.1	960
3	Electron-scale measurements of magnetic reconnection in space. Science, 2016, 352, aaf2939.	12.6	545
4	Cassini Plasma Spectrometer Investigation. Space Science Reviews, 2004, 114, 1-112.	8.1	452
5	Solar wind plasma injection at the dayside magnetospheric cusp. Journal of Geophysical Research, 1977, 82, 479-491.	3.3	361
6	The Space Physics Environment Data Analysis System (SPEDAS). Space Science Reviews, 2019, 215, 9.	8.1	332
7	An extreme distortion of the Van Allen belt arising from the "Halloween" solar storm in 2003. Nature, 2004, 432, 878-881.	27.8	299
8	Electron magnetic reconnection without ion coupling in Earth's turbulent magnetosheath. Nature, 2018, 557, 202-206.	27.8	263
9	IMAGE mission overview. Space Science Reviews, 2000, 91, 1-14.	8.1	237
10	Electron-scale dynamics of the diffusion region during symmetric magnetic reconnection in space. Science, 2018, 362, 1391-1395.	12.6	221
11	Views of Earth's Magnetosphere with the IMAGE Satellite. Science, 2001, 291, 619-624.	12.6	150
12	Hot Plasma Composition Analyzer for the Magnetospheric Multiscale Mission. Space Science Reviews, 2016, 199, 407-470.	8.1	147
13	Magnetospheric Multiscale Science Mission Profile and Operations. Space Science Reviews, 2016, 199, 77-103.	8.1	138
14	RPC: The Rosetta Plasma Consortium. Space Science Reviews, 2007, 128, 629-647.	8.1	135
15	Magnetic reconnection at the dayside magnetopause: Advances with MMS. Geophysical Research Letters, 2016, 43, 8327-8338.	4.0	125
16	RPC-IES: The Ion and Electron Sensor of the Rosetta Plasma Consortium. Space Science Reviews, 2007, 128, 697-712.	8.1	123
17	Evidence for rotationally driven plasma transport in Saturn's magnetosphere. Geophysical Research Letters, 2005, 32, n/a-n/a.	4.0	121
18	Properties of local plasma injections in Saturn's magnetosphere. Geophysical Research Letters, 2005, 32, n/a-n/a.	4.0	109

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19	Lower hybrid waves in the ion diffusion and magnetospheric inflow regions. Journal of Geophysical Research: Space Physics, 2017, 122, 517-533.	2.4	108
20	Birth of a comet magnetosphere: A spring of water ions. Science, 2015, 347, aaa0571.	12.6	107
21	Cusp aurora dependence on interplanetary magnetic fieldBz. Journal of Geophysical Research, 2002, 107, SIA 6-1.	3.3	105
22	RPC-ICA: The Ion Composition Analyzer of the Rosetta Plasma Consortium. Space Science Reviews, 2007, 128, 671-695.	8.1	104
23	Magnetospheric Multiscale observations of magnetic reconnection associated with Kelvinâ€Helmholtz waves. Geophysical Research Letters, 2016, 43, 5606-5615.	4.0	104
24	Timing of magnetic reconnection initiation during a global magnetospheric substorm onset. Geophysical Research Letters, 2002, 29, 43-1-43-4.	4.0	102
25	MMS observations of electronâ€scale filamentary currents in the reconnection exhaust and near the X line. Geophysical Research Letters, 2016, 43, 6060-6069.	4.0	99
26	First detection of a diamagnetic cavity at comet 67P/Churyumov-Gerasimenko. Astronomy and Astrophysics, 2016, 588, A24.	5.1	95
27	Ionâ€scale secondary flux ropes generated by magnetopause reconnection as resolved by MMS. Geophysical Research Letters, 2016, 43, 4716-4724.	4.0	95
28	Electron scale structures and magnetic reconnection signatures in the turbulent magnetosheath. Geophysical Research Letters, 2016, 43, 5969-5978.	4.0	92
29	High-Altitude Observations of the Polar Wind. Science, 1997, 277, 349-351.	12.6	90
30	Medium energy neutral atom (MENA) imager for the IMAGE mission. Space Science Reviews, 2000, 91, 113-154.	8.1	90
31	2Ï€â€radian fieldâ€ofâ€view toroidal electrostatic analyzer. Review of Scientific Instruments, 1988, 59, 743-751.	1.3	89
32	MMS observations of whistler waves in electron diffusion region. Geophysical Research Letters, 2017, 44, 3954-3962.	4.0	89
33	Rippled Quasiperpendicular Shock Observed by the Magnetospheric Multiscale Spacecraft. Physical Review Letters, 2016, 117, 165101.	7.8	87
34	Interplanetary coronal mass ejection observed at STEREOâ€A, Mars, comet 67P/Churyumovâ€Gerasimenko, Saturn, and New Horizons en route to Pluto: Comparison of its Forbush decreases at 1.4, 3.1, and 9.9ÂAU. Journal of Geophysical Research: Space Physics, 2017, 122, 7865-7890.	2.4	87
35	Estimates of terms in Ohm's law during an encounter with an electron diffusion region. Geophysical Research Letters, 2016, 43, 5918-5925.	4.0	86
36	Magnetospheric Multiscale Observations of Electron Vortex Magnetic Hole in the Turbulent Magnetosheath Plasma. Astrophysical Journal Letters, 2017, 836, L27.	8.3	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.	4.0	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.	4.0	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.	2.4	81
40	Properties of the Turbulence Associated with Electron-only Magnetic Reconnection in Earth's Magnetosheath. <i>Astrophysical Journal Letters</i> , 2019, 877, L37.	8.3	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.	4.4	79
42	Magnetospheric Multiscale Dayside Reconnection Electron Diffusion Region Events. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 4858-4878.	2.4	79
43	Observations of an Electron Diffusion Region in Symmetric Reconnection with Weak Guide Field. <i>Astrophysical Journal</i> , 2019, 870, 34.	4.5	79
44	Electron-Scale Measurements of Dipolarization Front. <i>Geophysical Research Letters</i> , 2018, 45, 4628-4638.	4.0	77
45	Evolution of the ion environment of comet 67P/Churyumov-Gerasimenko. <i>Astronomy and Astrophysics</i> , 2015, 583, A20.	5.1	76
46	Global dynamics of the plasmasphere and ring current during magnetic storms. <i>Geophysical Research Letters</i> , 2001, 28, 1159-1162.	4.0	75
47	Ionospheric plasma of comet 67P probed by Rosetta at 3 Åu from the Sun. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 462, S331-S351.	4.4	75
48	Electron Jet Detected by MMS at Dipolarization Front. <i>Geophysical Research Letters</i> , 2018, 45, 556-564.	4.0	75
49	Magnetotail reconnection onset caused by electron kinetics with a strong external driver. <i>Nature Communications</i> , 2020, 11, 5049.	12.8	75
50	Magnetospheric Multiscale Observations of the Electron Diffusion Region of Large Guide Field Magnetic Reconnection. <i>Physical Review Letters</i> , 2016, 117, 015001.	7.8	74
51	Wave-particle energy exchange directly observed in a kinetic Alfvén-branch wave. <i>Nature Communications</i> , 2017, 8, 14719.	12.8	73
52	MMS Observation of Magnetic Reconnection in the Turbulent Magnetosheath. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 11,442.	2.4	73
53	Coalescence of Macroscopic Flux Ropes at the Subsolar Magnetopause: Magnetospheric Multiscale Observations. <i>Physical Review Letters</i> , 2017, 119, 055101.	7.8	72
54	Magnetospheric Multiscale Observation of Plasma Velocity-Space Cascade: Hermite Representation and Theory. <i>Physical Review Letters</i> , 2017, 119, 205101.	7.8	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.	4.0	69
56	Precipitation of auroral protons in detached arcs. <i>Geophysical Research Letters</i> , 2002, 29, 14-1.	4.0	67
57	Observation of a new type of low-frequency waves at comet 67P/Churyumov-Gerasimenko. <i>Annales Geophysicae</i> , 2015, 33, 1031-1036.	1.6	66
58	Electron jet of asymmetric reconnection. <i>Geophysical Research Letters</i> , 2016, 43, 5571-5580.	4.0	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.	4.0	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.	7.8	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.	2.4	64
62	How Accurately Can We Measure the Reconnection Rate $\langle E \rangle_M$ for the MMS Diffusion Region Event of 11 July 2017?. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 9130-9149.	2.4	64
63	Cause of plasmasphere corotation lag. <i>Geophysical Research Letters</i> , 2004, 31, n/a-n/a.	4.0	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.	4.4	62
65	Characterizing cometary electrons with kappa distributions. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 7407-7422.	2.4	62
66	Magnetospheric Multiscale Satellites Observations of Parallel Electric Fields Associated with Magnetic Reconnection. <i>Physical Review Letters</i> , 2016, 116, 235102.	7.8	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.	4.0	61
68	MMS Observations of Electrostatic Waves in an Oblique Shock Crossing. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 9430-9442.	2.4	58
69	Tethys and Dione as sources of outward-flowing plasma in Saturn's magnetosphere. <i>Nature</i> , 2007, 447, 833-835.	27.8	57
70	Periodicity in Saturn's magnetosphere: Plasma cam. <i>Geophysical Research Letters</i> , 2009, 36, .	4.0	56
71	In Situ Observation of Intermittent Dissipation at Kinetic Scales in the Earth's Magnetosheath. <i>Astrophysical Journal Letters</i> , 2018, 856, L19.	8.3	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.	4.5	55

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73	Reconnecting Magnetic Fields. American Scientist, 2009, 97, 392.	0.1	55
74	MMS observations of ionâ€scale magnetic island in the magnetosheath turbulent plasma. Geophysical Research Letters, 2016, 43, 7850-7858.	4.0	53
75	Electron currents and heating in the ion diffusion region of asymmetric reconnection. Geophysical Research Letters, 2016, 43, 4691-4700.	4.0	53
76	MMS Observations and Hybrid Simulations of Surface Ripples at a Marginally Quasiâ€Parallel Shock. Journal of Geophysical Research: Space Physics, 2017, 122, 11,003.	2.4	53
77	Interplanetary magnetic field control of afternoon-sector detached proton auroral arcs. Journal of Geophysical Research, 2002, 107, SMP 17-1.	3.3	52
78	Kinetic AlfvÃ©n wave explanation of the Hall fields in magnetic reconnection. Geophysical Research Letters, 2017, 44, 634-640.	4.0	52
79	Electron diffusion region during magnetopause reconnection with an intermediate guide field: Magnetospheric multiscale observations. Journal of Geophysical Research: Space Physics, 2017, 122, 5235-5246.	2.4	52
80	Electron Crescent Distributions as a Manifestation of Diamagnetic Drift in an Electronâ€scale Current Sheet: Magnetospheric Multiscale Observations Using New 7.5Ãms Fast Plasma Investigation Moments. Geophysical Research Letters, 2018, 45, 578-584.	4.0	52
81	Energy limits of electron acceleration in the plasma sheet during substorms: A case study with the Magnetospheric Multiscale (MMS) mission. Geophysical Research Letters, 2016, 43, 7785-7794.	4.0	51
82	Higherâ€Order Turbulence Statistics in the Earth's Magnetosheath and the Solar Wind Using Magnetospheric Multiscale Observations. Journal of Geophysical Research: Space Physics, 2018, 123, 9941-9954.	2.4	51
83	Observations of Magnetic Reconnection in the Transition Region of Quasiâ€Parallel Shocks. Geophysical Research Letters, 2019, 46, 1177-1184.	4.0	51
84	On the electron diffusion region in asymmetric reconnection with a guide magnetic field. Geophysical Research Letters, 2016, 43, 2359-2364.	4.0	50
85	Electron Heating at Kinetic Scales in Magnetosheath Turbulence. Astrophysical Journal, 2017, 836, 247.	4.5	50
86	Measurement of the Magnetic Reconnection Rate in the Earth's Magnetotail. Journal of Geophysical Research: Space Physics, 2018, 123, 9150-9168.	2.4	50
87	Magnetic signatures of plasmaâ€depleted flux tubes in the Saturnian inner magnetosphere. Geophysical Research Letters, 2007, 34, .	4.0	49
88	Electron dynamics in a subprotonâ€gyroscale magnetic hole. Geophysical Research Letters, 2016, 43, 4112-4118.	4.0	49
89	Suprathermal electrons near the nucleus of comet 67P/Churyumovâ€Gerasimenko at 3â€%AU: Model comparisons with Rosetta data. Journal of Geophysical Research: Space Physics, 2016, 121, 5815-5836.	2.4	49
90	ON ELECTRON-SCALE WHISTLER TURBULENCE IN THE SOLAR WIND. Astrophysical Journal Letters, 2016, 827, L8.	8.3	49

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91	Multispacecraft analysis of dipolarization fronts and associated whistler wave emissions using MMS data. Geophysical Research Letters, 2016, 43, 7279-7286.	4.0	49
92	An Electron-Scale Current Sheet Without Bursty Reconnection Signatures Observed in the Near-Earth Tail. Geophysical Research Letters, 2018, 45, 4542-4549.	4.0	49
93	Rosetta observations of solar wind interaction with the comet 67P/Churyumov-Gerasimenko. Astronomy and Astrophysics, 2015, 583, A21.	5.1	48
94	Large-scale characteristics of reconnection diffusion regions and associated magnetopause crossings observed by MMS. Journal of Geophysical Research: Space Physics, 2017, 122, 5466-5486.	2.4	48
95	Solar Wind Turbulence Studies Using MMS Fast Plasma Investigation Data. Astrophysical Journal, 2018, 866, 81.	4.5	48
96	Kinetic evidence of magnetic reconnection due to Kelvin-Helmholtz waves. Geophysical Research Letters, 2016, 43, 5635-5643.	4.0	47
97	Autogenous and efficient acceleration of energetic ions upstream of Earth's bow shock. Nature, 2018, 561, 206-210.	27.8	47
98	Observational Evidence of Magnetic Reconnection in the Terrestrial Bow Shock Transition Region. Geophysical Research Letters, 2019, 46, 562-570.	4.0	47
99	Electron Distribution Functions Around a Reconnection X-Line Resolved by the FOTE Method. Geophysical Research Letters, 2019, 46, 1195-1204.	4.0	47
100	Mass-loading, pile-up, and mirror-mode waves at comet 67P/Churyumov-Gerasimenko. Annales Geophysicae, 2016, 34, 1-15.	1.6	46
101	Drift waves, intense parallel electric fields, and turbulence associated with asymmetric magnetic reconnection at the magnetopause. Geophysical Research Letters, 2017, 44, 2978-2986.	4.0	46
102	Instability of Agyrotropic Electron Beams near the Electron Diffusion Region. Physical Review Letters, 2017, 119, 025101.	7.8	46
103	Observations of Whistler Waves Correlated with Electron-scale Coherent Structures in the Magnetosheath Turbulent Plasma. Astrophysical Journal, 2018, 861, 29.	4.5	46
104	Energy Range of Electron Rolling Pin Distribution Behind Dipolarization Front. Geophysical Research Letters, 2019, 46, 2390-2398.	4.0	46
105	The Rosetta Ion and Electron Sensor (IES) measurement of the development of pickup ions from comet 67P/Churyumov-Gerasimenko. Geophysical Research Letters, 2015, 42, 3093-3099.	4.0	45
106	Magnetic reconnection and modification of the Hall physics due to cold ions at the magnetopause. Geophysical Research Letters, 2016, 43, 6705-6712.	4.0	45
107	Statistical analysis of suprathermal electron drivers at 67P/Churyumov-Gerasimenko. Monthly Notices of the Royal Astronomical Society, 2016, 462, S312-S322.	4.4	45
108	Magnetospheric Multiscale Satellite Observations of Parallel Electron Acceleration in Magnetic Field Reconnection by Fermi Reflection from Time Domain Structures. Physical Review Letters, 2016, 116, 145101.	7.8	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.	2.4	45
110	Evidence of Magnetic Nulls in Electron Diffusion Region. <i>Geophysical Research Letters</i> , 2019, 46, 48-54.	4.0	45
111	Universality of Lower Hybrid Waves at Earth's Magnetopause. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 8727-8760.	2.4	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.	4.0	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.	7.8	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.	2.4	44
115	Direct Evidence for Electron Acceleration Within Ionâ€scale Flux Rope. <i>Geophysical Research Letters</i> , 2020, 47, e2019GL085141.	4.0	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.	5.1	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.	2.4	43
119	Observations of the Electron Jet Generated by Secondary Reconnection in the Terrestrial Magnetotail. <i>Astrophysical Journal</i> , 2018, 862, 144.	4.5	43
120	<i>In Situ</i> Observation of Hall Magnetohydrodynamic Cascade in Space Plasma. <i>Physical Review Letters</i> , 2020, 124, 225101.	7.8	43
121	Magnetospheric ion influence on magnetic reconnection at the duskside magnetopause. <i>Geophysical Research Letters</i> , 2016, 43, 1435-1442.	4.0	42
122	MMS Multipoint electric field observations of smallâ€scale magnetic holes. <i>Geophysical Research Letters</i> , 2016, 43, 5953-5959.	4.0	42
123	CME impact on comet 67P/Churyumov-Gerasimenko. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 462, S45-S56.	4.4	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.	2.4	42
125	Incompressive Energy Transfer in the Earthâ€™s Magnetosheath: Magnetospheric Multiscale Observations. <i>Astrophysical Journal</i> , 2018, 866, 106.	4.5	42
126	Solar wind interactions with Comet 19P/Borrelly. <i>Icarus</i> , 2004, 167, 80-88.	2.5	41

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127	Magnetospheric Multiscale mission observations of the outer electron diffusion region. Geophysical Research Letters, 2017, 44, 2049-2059.	4.0	41
128	Localized Oscillatory Energy Conversion in Magnetopause Reconnection. Geophysical Research Letters, 2018, 45, 1237-1245.	4.0	41
129	Evidence of Electron Acceleration at a Reconnecting Magnetopause. Geophysical Research Letters, 2019, 46, 5645-5652.	4.0	41
130	Energy Conversion and Dissipation at Dipolarization Fronts: A Statistical Overview. Geophysical Research Letters, 2019, 46, 12693-12701.	4.0	41
131	Statistics of Kinetic Dissipation in the Earth's Magnetosheath: MMS Observations. Physical Review Letters, 2020, 124, 255101.	7.8	41
132	Global observations of proton and electron auroras in a substorm. Geophysical Research Letters, 2001, 28, 1139-1142.	4.0	40
133	Quadrupolar pattern of the asymmetric guide-field reconnection. Journal of Geophysical Research: Space Physics, 2017, 122, 6349-6356.	2.4	40
134	Evidence for Secondary Flux Rope Generated by the Electron Kelvin-Helmholtz Instability in a Magnetic Reconnection Diffusion Region. Physical Review Letters, 2018, 120, 075101.	7.8	40
135	The Role of the Parallel Electric Field in Electron-Scale Dissipation at Reconnecting Currents in the Magnetosheath. Journal of Geophysical Research: Space Physics, 2018, 123, 6533-6547.	2.4	40
136	Microscopic, Multipoint Characterization of Foreshock Bubbles With Magnetospheric Multiscale (MMS). Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027707.	2.4	40
137	MMS Examination of FTEs at the Earth's Subsolar Magnetopause. Journal of Geophysical Research: Space Physics, 2018, 123, 1224-1241.	2.4	39
138	Determining $\langle b \rangle_L$ and $\langle b \rangle_M$ Current Sheet Coordinates at the Magnetopause From Magnetospheric Multiscale Data. Journal of Geophysical Research: Space Physics, 2018, 123, 2274-2295.	2.4	38
139	Plasma source and loss at comet 67P during the Rosetta mission. Astronomy and Astrophysics, 2018, 618, A77.	5.1	38
140	Rippled Electron-Scale Structure of a Dipolarization Front. Geophysical Research Letters, 2018, 45, 12,116.	4.0	38
141	Electron Bulk Acceleration and Thermalization at Earth's Quasiperpendicular Bow Shock. Physical Review Letters, 2018, 120, 225101.	7.8	38
142	Polynomial Reconstruction of the Reconnection Magnetic Field Observed by Multiple Spacecraft. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027481.	2.4	38
143	Charge exchange in cometary coma: Discovery of H^+ ions in the solar wind close to comet 67P/Churyumov-Gerasimenko. Geophysical Research Letters, 2015, 42, 5125-5131.	4.0	37
144	Finite gyroradius effects in the electron outflow of asymmetric magnetic reconnection. Geophysical Research Letters, 2016, 43, 6724-6733.	4.0	37

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145	Turbulence in Threeâ€Dimensional Simulations of Magnetopause Reconnection. Journal of Geophysical Research: Space Physics, 2017, 122, 11,086.	2.4	37
146	In Situ Observation of Magnetic Reconnection Between an Earthward Propagating Flux Rope and the Geomagnetic Field. Geophysical Research Letters, 2018, 45, 8729-8737.	4.0	37
147	Direct measurements of two-way wave-particle energy transfer in a collisionless space plasma. Science, 2018, 361, 1000-1003.	12.6	36
148	Reconnection With Magnetic Flux Pileup at the Interface of Converging Jets at the Magnetopause. Geophysical Research Letters, 2019, 46, 1937-1946.	4.0	36
149	Highâ€Resolution Measurements of the Crossâ€Shock Potential, Ion Reflection, and Electron Heating at an Interplanetary Shock by MMS. Journal of Geophysical Research: Space Physics, 2019, 124, 3961-3978.	2.4	36
150	Observations of Particle Acceleration in Magnetic Reconnectionâ€driven Turbulence. Astrophysical Journal, 2020, 898, 154.	4.5	36
151	A telescopic and microscopic view of a magnetospheric substorm on 31 March 2001. Geophysical Research Letters, 2002, 29, 9-1-9-4.	4.0	35
152	The First two Years of Image. Space Science Reviews, 2003, 109, 1-24.	8.1	35
153	Signatures of complex magnetic topologies from multiple reconnection sites induced by Kelvinâ€Helmholtz instability. Journal of Geophysical Research: Space Physics, 2016, 121, 9926-9939.	2.4	35
154	Magnetic Reconnection at a Thin Current Sheet Separating Two Interlaced Flux Tubes at the Earth's Magnetopause. Journal of Geophysical Research: Space Physics, 2018, 123, 1779-1793.	2.4	35
155	Electronâ€Driven Dissipation in a Tailward Flow Burst. Geophysical Research Letters, 2019, 46, 5698-5706.	4.0	35
156	MMS observations of electron scale magnetic cavity embedded in proton scale magnetic cavity. Nature Communications, 2019, 10, 1040.	12.8	35
157	MMS Observation of Asymmetric Reconnection Supported by â€ Electron Pressure Divergence. Journal of Geophysical Research: Space Physics, 2018, 123, 1806-1821.	2.4	34
158	Guide Field Reconnection: Exhaust Structure and Heating. Geophysical Research Letters, 2018, 45, 4569-4577.	4.0	34
159	Intense Electric Fields and Electronâ€Scale Substructure Within Magnetotail Flux Ropes as Revealed by the Magnetospheric Multiscale Mission. Geophysical Research Letters, 2018, 45, 8783-8792.	4.0	34
160	Structure of the Current Sheet in the 11 July 2017 Electron Diffusion Region Event. Journal of Geophysical Research: Space Physics, 2019, 124, 1173-1186.	2.4	34
161	Threeâ€Dimensional Magnetic Reconnection With a Spatially Confined Xâ€Line Extent: Implications for Dipolarizing Flux Bundles and the Dawnâ€Dusk Asymmetry. Journal of Geophysical Research: Space Physics, 2019, 124, 2819-2830.	2.4	34
162	Solar wind interaction with comet 67P: Impacts of corotating interaction regions. Journal of Geophysical Research: Space Physics, 2016, 121, 949-965.	2.4	33

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163	The substructure of a flux transfer event observed by the MMS spacecraft. Geophysical Research Letters, 2016, 43, 9434-9443.	4.0	33
164	Electron Diffusion Regions in Magnetotail Reconnection Under Varying Guide Fields. Geophysical Research Letters, 2019, 46, 6230-6238.	4.0	33
165	Multi-Instrument analysis of plasma parameters in Saturn's equatorial, inner magnetosphere using corrections for corrections for spacecraft potential and penetrating background radiation. Journal of Geophysical Research: Space Physics, 2014, 119, 3683-3707.	2.4	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. Geophysical Research Letters, 2016, 43, 4808-4815.	4.0	32
167	Magnetospheric ion influence at the dayside magnetopause. Journal of Geophysical Research: Space Physics, 2017, 122, 8617-8631.	2.4	32
168	Multiscale Currents Observed by MMS in the Flow Braking Region. Journal of Geophysical Research: Space Physics, 2018, 123, 1260-1278.	2.4	32
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