Roy B Torbert

List of Publications by Year
in descending order

358	17,160	30551	24511
papers	citations	56 h-index	114 g-index

373	373	373	4112
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Investigation of the homogeneity of energy conversion processes at dipolarization fronts from MMS measurements. Physics of Plasmas, 2022, 29, .	0.7	5
2	Lower hybrid drift wave motion at a dayside magnetopause x-line with energy conversion dominated by a parallel electric field. Physics of Plasmas, 2022, 29, 012905.	0.7	3
3	Theory, observations, and simulations of kinetic entropy in a magnetotail electron diffusion region. Physics of Plasmas, 2022, 29, .	0.7	7
4	A New Three-Dimensional Empirical Reconstruction Model Using a Stochastic Optimization Method. Frontiers in Astronomy and Space Sciences, 2022, 9, .	1.1	1
5	Electron energization and thermal to non-thermal energy partition during earth's magnetotail reconnection. Physics of Plasmas, 2022, 29, .	0.7	7
6	The EDR inflow region of a reconnecting current sheet in the geomagnetic tail. Physics of Plasmas, 2022, 29, .	0.7	3
7	Magnetic Field Annihilation in a Magnetotail Electron Diffusion Region With Electronâ€Scale Magnetic Island. Journal of Geophysical Research: Space Physics, 2022, 127, .	0.8	6
8	Characteristics of Energetic Electrons Near Active Magnetotail Reconnection Sites: Tracers of a Complex Magnetic Topology and Evidence of Localized Acceleration. Geophysical Research Letters, 2021, 48, e2020GL090089.	1.5	10
9	Comparative Analysis of the Various Generalized Ohm's Law Terms in Magnetosheath Turbulence as Observed by Magnetospheric Multiscale. Journal of Geophysical Research: Space Physics, 2021, 126, 2020JA028447.	0.8	15
10	Observations of Mirror Mode Structures in the Dawnâ€Side Magnetosphere. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA028649.	0.8	2
11	Evidence for Nonadiabatic Oxygen Energization in the Nearâ€Earth Magnetotail From MMS. Geophysical Research Letters, 2021, 48, e2020GL091697.	1.5	5
12	MMS Observations of Reconnection Separatrix Region in the Magnetotail at Different Distances From the Active Neutral Xâ€Line. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA028694.	0.8	5
13	In Situ Evidence of Ion Acceleration between Consecutive Reconnection Jet Fronts. Astrophysical Journal, 2021, 908, 73.	1.6	3
14	Twoâ€Dimensional Velocity of the Magnetic Structure Observed on July 11, 2017 by the Magnetospheric Multiscale Spacecraft. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA028705.	0.8	7
15	An Encounter With the Ion and Electron Diffusion Regions at a Flapping and Twisted Tail Current Sheet. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA028903.	0.8	8
16	Statistical Relationship Between Interplanetary Magnetic Field Conditions and the Helicity Sign of Flux Transfer Event Flux Ropes. Geophysical Research Letters, 2021, 48, e2020GL091257.	1.5	6
17	Determining EMIC Wave Vector Properties Through Multiâ€Point Measurements: The Wave Curl Analysis. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA028922.	0.8	10
18	Electron Trapping in Magnetic Mirror Structures at the Edge of Magnetopause Flux Ropes. Journal of Geophysical Research: Space Physics, 2021, 126, e2021JA029182.	0.8	3

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19	MMS Observations of Field Line Resonances Under Disturbed Solar Wind Conditions. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA028936.	0.8	2
20	Origin of Electronâ€Scale Magnetic Fluctuations Close to an Electron Diffusion Region. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA029046.	0.8	1
21	A Multiâ€Instrument Study of a Dipolarization Event in the Inner Magnetosphere. Journal of Geophysical Research: Space Physics, 2021, 126, e2021JA029294.	0.8	0
22	Results of the Electron Drift Instrument on Cluster. Journal of Geophysical Research: Space Physics, 2021, 126, e2021JA029313.	0.8	1
23	Statistical Survey of Collisionless Dissipation in the Terrestrial Magnetosheath. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA029000.	0.8	12
24	Microscale Processes Determining Macroscale Evolution of Magnetic Flux Tubes along Earthâ€™s Magnetopause. Astrophysical Journal, 2021, 914, 26.	1.6	6
25	Comparison of MMS Observations of Foreshock Bubbles With a Global Hybrid Simulation. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA028848.	0.8	5
26	Structures in the terms of the Vlasov equation observed at Earthâ€™s magnetopause. Nature Physics, 2021, 17, 1056-1065.	6.5	15
27	Upperâ€Hybrid Waves Driven by Meandering Electrons Around Magnetic Reconnection X Line. Geophysical Research Letters, 2021, 48, e2021GL093164.	1.5	13
28	Remote Sensing of Magnetic Reconnection in the Magnetotail Using In Situ Multipoint Observations at the Plasma Sheet Boundary Layer. Journal of Geophysical Research: Space Physics, 2021, 126, .	0.8	4
29	Solitary Magnetic Structures at Quasiâ€Parallel Collisionless Shocks: Formation. Geophysical Research Letters, 2021, 48, e2020GL090800.	1.5	21
30	Application of Cold and Hot Plasma Composition Measurements to Investigate Impacts on Duskâ€Side Electromagnetic Ion Cyclotron Waves. Journal of Geophysical Research: Space Physics, 2021, 126, .	0.8	5
31	The Occurrence and Prevalence of Time Domain Structures in the Kelvin-Helmholtz Instability at Different Positions Along the Earthâ€™s Magnetospheric Flanks. Frontiers in Astronomy and Space Sciences, 2021, 8, .	1.1	2
32	Thin Current Sheet Behind the Dipolarization Front. Journal of Geophysical Research: Space Physics, 2021, 126, e2021JA029518.	0.8	8
33	Origin and structure of electromagnetic generator regions at the edge of the electron diffusion region. Physics of Plasmas, 2021, 28, .	0.7	8
34	Bifurcated Current Sheet Observed on the Boundary of Kelvin-Helmholtz Vortices. Frontiers in Astronomy and Space Sciences, 2021, 8, .	1.1	3
35	Mapping MMS Observations of Solitary Waves in Earth's Magnetic Field. Journal of Geophysical Research: Space Physics, 2021, 126, e2021JA029389.	0.8	1
36	Spatial evolution of magnetic reconnection diffusion region structures with distance from the X-line. Physics of Plasmas, 2021, 28, .	0.7	3

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37	Low-frequency Whistler Waves Modulate Electrons and Generate Higher-frequency Whistler Waves in the Solar Wind. Astrophysical Journal, 2021, 923, 216.	1.6	7
38	Electron Bernstein waves driven by electron crescents near the electron diffusion region. Nature Communications, 2020, 11, 141.	5.8	26
39	Terrestrial Bow Shock Parameters From MMS Measurements: Dependence on Upstream and Downstream Time Ranges. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027231.	0.8	3
40	Multiscale Coupling During Magnetopause Reconnection: Interface Between the Electron and Ion Diffusion Regions. Journal of Geophysical Research: Space Physics, 2020, 125, e2020JA027985.	0.8	10
41	Energy Balance and Time Dependence of a Magnetotail Electron Diffusion Region. Journal of Geophysical Research: Space Physics, 2020, 125, e2020JA028290.	0.8	3
42	Magnetotail reconnection onset caused by electron kinetics with a strong external driver. Nature Communications, 2020, 11, 5049.	5.8	75
43	MMS SITL Ground Loop: Automating the Burst Data Selection Process. Frontiers in Astronomy and Space Sciences, 2020, 7, 54.	1.1	16
44	Electron Inflow Velocities and Reconnection Rates at Earth's Magnetopause and Magnetosheath. Geophysical Research Letters, 2020, 47, e2020GL089082.	1.5	23
45	Chargeâ€Stateâ€Dependent Energization of Suprathermal Ions During Substorm Injections Observed by MMS in the Magnetotail. Journal of Geophysical Research: Space Physics, 2020, 125, e2020JA028144.	0.8	8
46	Statistical Study of Oxygen Ions Abundance and Spatial Distribution in the Dayside Magnetopause Boundary Layer: MMS Observations. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027323.	0.8	4
47	A Study of a Magnetic Cloud Propagating Through Largeâ€Amplitude AlfvÃ©n Waves. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027638.	0.8	4
48	Magnetospheric Multiscale observations of energetic oxygen ions at the duskside magnetopause during intense substorms. Annales Geophysicae, 2020, 38, 123-135.	0.6	2
49	Parallel Electrostatic Waves Associated With Turbulent Plasma Mixing in the Kelvinâ€Helmholtz Instability. Geophysical Research Letters, 2020, 47, e2020GL087837.	1.5	7
50	Intermittency and Ion Temperatureâ€“Anisotropy Instabilities: Simulation and Magnetosheath Observation. Astrophysical Journal, 2020, 895, 83.	1.6	10
51	Characteristics of Minor Ions and Electrons in Flux Transfer Events Observed by the Magnetospheric Multiscale Mission. Journal of Geophysical Research: Space Physics, 2020, 125, e2020JA027778.	0.8	8
52	Cluster and MMS Simultaneous Observations of Magnetosheath High Speed Jets and Their Impact on the Magnetopause. Frontiers in Astronomy and Space Sciences, 2020, 6, .	1.1	18
53	Statistics of Kinetic Dissipation in the Earthâ€™s Magnetosheath: MMS Observations. Physical Review Letters, 2020, 124, 255101.	2.9	41
54	Lower-Hybrid Drift Waves Driving Electron Nongyrotropic Heating and Vortical Flows in a Magnetic Reconnection Layer. Physical Review Letters, 2020, 125, 025103.	2.9	29

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55	Characteristics of Escaping Magnetospheric Ions Associated With Magnetic Field Fluctuations. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027337.	0.8	2
56	Asymmetric Reconnection Within a Flux Ropeâ€Type Dipolarization Front. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027296.	0.8	7
57	A New Method of 3â€D Magnetic Field Reconstruction. Geophysical Research Letters, 2020, 47, e2019GL085542.	1.5	29
58	Electron Heating by Debye-Scale Turbulence in Guide-Field Reconnection. Physical Review Letters, 2020, 124, 045101.	2.9	31
59	Statistics of Reconnecting Current Sheets in the Transition Region of Earth's Bow Shock. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027119.	0.8	32
60	Polynomial Reconstruction of the Reconnection Magnetic Field Observed by Multiple Spacecraft. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027481.	0.8	38
61	Magnetic Reconnection Inside a Flux Rope Induced by Kelvinâ€Helmholtz Vortices. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027665.	0.8	26
62	In Situ Measurement of Curvature of Magnetic Field in Turbulent Space Plasmas: A Statistical Study. Astrophysical Journal Letters, 2020, 893, L25.	3.0	11
63	Sequential Observations of Flux Transfer Events, Polewardâ€Moving Auroral Forms, and Polar Cap Patches. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027674.	0.8	12
64	Energy Flux Densities near the Electron Dissipation Region in Asymmetric Magnetopause Reconnection. Physical Review Letters, 2020, 125, 265102.	2.9	17
65	Particle Acceleration in Strong Turbulence in the Earthâ€™s Magnetotail. Astrophysical Journal, 2020, 898, 153.	1.6	27
66	Observations of Particle Acceleration in Magnetic Reconnectionâ€“driven Turbulence. Astrophysical Journal, 2020, 898, 154.	1.6	36
67	Ion-scale Current Structures in Short Large-amplitude Magnetic Structures. Astrophysical Journal, 2020, 898, 121.	1.6	12
68	Direct Measurement of the Solar-wind Taylor Microscale Using MMS Turbulence Campaign Data. Astrophysical Journal, 2020, 899, 63.	1.6	21
69	Observation of Energy Conversion Near the X-line in Asymmetric Guide-field Reconnection. Astrophysical Journal Letters, 2020, 895, L10.	3.0	2
70	Substormâ€Related Nearâ€Earth Reconnection Surge: Combining Telescopic and Microscopic Views. Geophysical Research Letters, 2019, 46, 6239-6247.	1.5	1
71	Electron Vorticity Indicative of the Electron Diffusion Region of Magnetic Reconnection. Geophysical Research Letters, 2019, 46, 6287-6296.	1.5	23
72	Velocity Rotation Events in the Outer Magnetosphere Near the Magnetopause. Journal of Geophysical Research: Space Physics, 2019, 124, 4137-4156.	0.8	3

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73	Sign Singularity of the Local Energy Transfer in Space Plasma Turbulence. Frontiers in Physics, 2019, 7, .	1.0	9
74	Investigation of Massâ€/Chargeâ€Dependent Escape of Energetic Ions Across the Magnetopauses of Earth and Jupiter. Journal of Geophysical Research: Space Physics, 2019, 124, 5539-5567.	0.8	15
75	Energy Conversion and Electron Acceleration in the Magnetopause Reconnection Diffusion Region. Geophysical Research Letters, 2019, 46, 10274-10282.	1.5	10
76	A Survey of Plasma Waves Appearing Near Dayside Magnetopause Electron Diffusion Region Events. Journal of Geophysical Research: Space Physics, 2019, 124, 7837-7849.	0.8	20
77	Dissipation of Earthward Propagating Flux Rope Through Reâ€reconnection with Geomagnetic Field: An MMS Case Study. Journal of Geophysical Research: Space Physics, 2019, 124, 7477-7493.	0.8	15
78	Fourâ€Spacecraft Measurements of the Shape and Dimensionality of Magnetic Structures in the Nearâ€Earth Plasma Environment. Journal of Geophysical Research: Space Physics, 2019, 124, 6850-6868.	0.8	7
79	Reconnection With Magnetic Flux Pileup at the Interface of Converging Jets at the Magnetopause. Geophysical Research Letters, 2019, 46, 1937-1946.	1.5	36
80	Turbulence-Driven Ion Beams in the Magnetospheric Kelvin-Helmholtz Instability. Physical Review Letters, 2019, 122, 035102.	2.9	62
81	Observations of an Electron Diffusion Region in Symmetric Reconnection with Weak Guide Field. Astrophysical Journal, 2019, 870, 34.	1.6	79
82	Observational Evidence of Magnetic Reconnection in the Terrestrial Bow Shock Transition Region. Geophysical Research Letters, 2019, 46, 562-570.	1.5	47
83	Structure of the Current Sheet in the 11 July 2017 Electron Diffusion Region Event. Journal of Geophysical Research: Space Physics, 2019, 124, 1173-1186.	0.8	34
84	Prolonged Kelvinâ€“Helmholtz Waves at Dawn and Dusk Flank Magnetopause: Simultaneous Observations by MMS and THEMIS. Astrophysical Journal, 2019, 875, 57.	1.6	10
85	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.	0.8	36
86	Numerical Algorithm for Detecting Ion Diffusion Regions in the Geomagnetic Tail With Applications to MMS Tail Season 1 May to 30 September 2017. Journal of Geophysical Research: Space Physics, 2019, 124, 6487-6503.	0.8	15
87	Properties of the Turbulence Associated with Electron-only Magnetic Reconnection in Earthâ€™s Magnetosheath. Astrophysical Journal Letters, 2019, 877, L37.	3.0	80
88	Electron Diffusion Regions in Magnetotail Reconnection Under Varying Guide Fields. Geophysical Research Letters, 2019, 46, 6230-6238.	1.5	33
89	EMIC Waves in the Outer Magnetosphere: Observations of an Offâ€Equator Source Region. Geophysical Research Letters, 2019, 46, 5707-5716.	1.5	29
90	Whistler Waves Driven by Fieldâ€Aligned Streaming Electrons in the Nearâ€Earth Magnetotail Reconnection. Geophysical Research Letters, 2019, 46, 5045-5054.	1.5	18

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91	MMS Observations of Kinetic-size Magnetic Holes in the Terrestrial Magnetotail Plasma Sheet. Astrophysical Journal, 2019, 875, 113.	1.6	21
92	Improved Determination of Plasma Density Based on Spacecraft Potential of the Magnetospheric Multiscale Mission Under Active Potential Control. IEEE Transactions on Plasma Science, 2019, 47, 3636-3647.	0.6	9
93	Magnetospheric Multiscale Observations of ULF Waves and Correlated Lowâ€Energy Ion Monoenergetic Acceleration. Journal of Geophysical Research: Space Physics, 2019, 124, 2788-2794.	0.8	5
94	Magnetospheric Multiscale Observation of Kinetic Signatures in the AlfvÃ©n Vortex. Astrophysical Journal Letters, 2019, 871, L22.	3.0	25
95	Observations of Flux Ropes With Strong Energy Dissipation in the Magnetotail. Geophysical Research Letters, 2019, 46, 580-589.	1.5	31
96	Impulsively Reflected Ions: A Plausible Mechanism for Ion Acoustic Wave Growth in Collisionless Shocks. Journal of Geophysical Research: Space Physics, 2019, 124, 1855-1865.	0.8	16
97	Highâ€Frequency Wave Generation in Magnetotail Reconnection: Linear Dispersion Analysis. Geophysical Research Letters, 2019, 46, 4089-4097.	1.5	32
98	In situ spacecraft observations of a structured electron diffusion region during magnetopause reconnection. Physical Review E, 2019, 99, 043204.	0.8	11
99	Observations of Magnetic Reconnection in the Transition Region of Quasiâ€Parallel Shocks. Geophysical Research Letters, 2019, 46, 1177-1184.	1.5	51
100	Magnetic Reconnection in Three Dimensions: Observations of Electromagnetic Drift Waves in the Adjacent Current Sheet. Journal of Geophysical Research: Space Physics, 2019, 124, 10104-10118.	0.8	6
101	Electronâ€Scale Magnetic Structure Observed Adjacent to an Electron Diffusion Region at the Dayside Magnetopause. Journal of Geophysical Research: Space Physics, 2019, 124, 10153-10169.	0.8	4
102	Can Reconnection be Triggered as a Solar Wind Directional Discontinuity Crosses the Bow Shock? AÂCaseÂof Asymmetric Reconnection. Journal of Geophysical Research: Space Physics, 2019, 124, 8507-8523.	0.8	10
103	Electron Scattering by Low-frequency Whistler Waves at Earthâ€™s Bow Shock. Astrophysical Journal, 2019, 886, 53.	1.6	28
104	Magnetic Reconnection in Three Dimensions: Modeling and Analysis of Electromagnetic Drift Waves in the Adjacent Current Sheet. Journal of Geophysical Research: Space Physics, 2019, 124, 10085-10103.	0.8	18
105	Waves in Kineticâ€Scale Magnetic Dips: MMS Observations in the Magnetosheath. Geophysical Research Letters, 2019, 46, 523-533.	1.5	49
106	Reconstruction of the Electron Diffusion Region of Magnetotail Reconnection Seen by the MMS Spacecraft on 11 July 2017. Journal of Geophysical Research: Space Physics, 2019, 124, 122-138.	0.8	25
107	The Properties of Lion Roars and Electron Dynamics in Mirror Mode Waves Observed by the Magnetospheric MultiScale Mission. Journal of Geophysical Research: Space Physics, 2018, 123, 93-103.	0.8	26
108	Largeâ€Scale Survey of the Structure of the Dayside Magnetopause by MMS. Journal of Geophysical Research: Space Physics, 2018, 123, 2018-2033.	0.8	27

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109	Energy partitioning constraints at kinetic scales in low-Î² turbulence. Physics of Plasmas, 2018, 25, .	0.7	25
110	Violation of Field Line Conservation and Associated Spatial Scales in Particleâ€inâ€Cell Simulations and MMS Data. Journal of Geophysical Research: Space Physics, 2018, 123, 1853-1884.	0.8	0
111	Determining Lâ€Mâ€N Current Sheet Coordinates at the Magnetopause From Magnetospheric Multiscale Data. Journal of Geophysical Research: Space Physics, 2018, 123, 2274-2295.	0.8	38
112	Magnetic Reconnection, Turbulence, and Particle Acceleration: Observations in the Earth's Magnetotail. Geophysical Research Letters, 2018, 45, 3338-3347.	1.5	69
113	MMS Examination of FTEs at the Earth's Subsolar Magnetopause. Journal of Geophysical Research: Space Physics, 2018, 123, 1224-1241.	0.8	39
114	Electron Crescent Distributions as a Manifestation of Diamagnetic Drift in an Electronâ€Scale Current Sheet: Magnetospheric Multiscale Observations Using New 7.5Âms Fast Plasma Investigation Moments. Geophysical Research Letters, 2018, 45, 578-584.	1.5	52
115	MMS Observation of Asymmetric Reconnection Supported by 3â€Ð Electron Pressure Divergence. Journal of Geophysical Research: Space Physics, 2018, 123, 1806-1821.	0.8	34
116	Electron Dynamics Within the Electron Diffusion Region of Asymmetric Reconnection. Journal of Geophysical Research: Space Physics, 2018, 123, 146-162.	0.8	10
117	Differing Properties of Two Ionâ€Scale Magnetopause Flux Ropes. Journal of Geophysical Research: Space Physics, 2018, 123, 114-131.	0.8	8
118	Negative Potential Solitary Structures in the Magnetosheath With Large Parallel Width. Journal of Geophysical Research: Space Physics, 2018, 123, 132-145.	0.8	16
119	Guide Field Reconnection: Exhaust Structure and Heating. Geophysical Research Letters, 2018, 45, 4569-4577.	1.5	34
120	Plasma Density Estimates From Spacecraft Potential Using MMS Observations in the Dayside Magnetosphere. Journal of Geophysical Research: Space Physics, 2018, 123, 2620-2629.	0.8	16
121	Localized Oscillatory Energy Conversion in Magnetopause Reconnection. Geophysical Research Letters, 2018, 45, 1237-1245.	1.5	41
122	Wave Phenomena and Beamâ€Plasma Interactions at the Magnetopause Reconnection Region. Journal of Geophysical Research: Space Physics, 2018, 123, 1118-1133.	0.8	19
123	In Situ Observation of Intermittent Dissipation at Kinetic Scales in the Earth's Magnetosheath. Astrophysical Journal Letters, 2018, 856, L19.	3.0	55
124	Effects in the Nearâ€Magnetopause Magnetosheath Elicited by Largeâ€Amplitude AlfvÃ©nic Fluctuations Terminating in a Field and Flow Discontinuity. Journal of Geophysical Research: Space Physics, 2018, 123, 8983-9004.	0.8	3
125	Multiscale Currents Observed by MMS in the Flow Braking Region. Journal of Geophysical Research: Space Physics, 2018, 123, 1260-1278.	0.8	32
126	How Accurately Can We Measure the Reconnection Rate E_M for the MMS Diffusion Region Event of 11 July 2017?. Journal of Geophysical Research: Space Physics, 2018, 123, 9130-9149.	0.8	64

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127	Magnetospheric Multiscale Dayside Reconnection Electron Diffusion Region Events. Journal of Geophysical Research: Space Physics, 2018, 123, 4858-4878.	0.8	79
128	Magnetospheric Multiscale Observations of an Ion Diffusion Region With Large Guide Field at the Magnetopause: Current System, Electron Heating, and Plasma Waves. Journal of Geophysical Research: Space Physics, 2018, 123, 1834-1852.	0.8	32
129	Shock ripples observed by the MMS spacecraft: ion reflection and dispersive properties. Plasma Physics and Controlled Fusion, 2018, 60, 125006.	0.9	25
130	Electron Phaseâ€Space Holes in Three Dimensions: Multispacecraft Observations by Magnetospheric Multiscale. Journal of Geophysical Research: Space Physics, 2018, 123, 9963-9978.	0.8	31
131	Electron-scale dynamics of the diffusion region during symmetric magnetic reconnection in space. Science, 2018, 362, 1391-1395.	6.0	221
132	Incompressive Energy Transfer in the Earthâ€™s Magnetosheath: Magnetospheric Multiscale Observations. Astrophysical Journal, 2018, 866, 106.	1.6	42
133	Magnetotail Hall Physics in the Presence of Cold Ions. Geophysical Research Letters, 2018, 45, 10,941.	1.5	17
134	Kinetic Range Spectral Features of Cross Helicity Using the Magnetospheric Multiscale Spacecraft. Physical Review Letters, 2018, 121, 265101.	2.9	17
135	Rippled Electronâ€Scale Structure of a Dipolarization Front. Geophysical Research Letters, 2018, 45, 12,116.	1.5	38
136	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.	0.8	51
137	Largeâ€Amplitude Highâ€Frequency Waves at Earth's Magnetopause. Journal of Geophysical Research: Space Physics, 2018, 123, 2630-2657.	0.8	30
138	MMS Observations of Electrostatic Waves in an Oblique Shock Crossing. Journal of Geophysical Research: Space Physics, 2018, 123, 9430-9442.	0.8	58
139	On the role of separatrix instabilities in heating the reconnection outflow region. Physics of Plasmas, 2018, 25, .	0.7	27
140	The two-fluid dynamics and energetics of the asymmetric magnetic reconnection in laboratory and space plasmas. Nature Communications, 2018, 9, 5223.	5.8	18
141	MMS Observations of Beta-dependent Constraints on Ion Temperature Anisotropy in Earthâ€™s Magnetosheath. Astrophysical Journal, 2018, 866, 25.	1.6	21
142	MMS, Van Allen Probes, GOES 13, and Groundâ€Based Magnetometer Observations of EMIC Wave Events Before, During, and After a Modest Interplanetary Shock. Journal of Geophysical Research: Space Physics, 2018, 123, 8331-8357.	0.8	30
143	Observational Evidence of Largeâ€Scale Multiple Reconnection at the Earth's Dayside Magnetopause. Journal of Geophysical Research: Space Physics, 2018, 123, 8407-8421.	0.8	21
144	Smallâ€Scale Flux Transfer Events Formed in the Reconnection Exhaust Region Between Two X Lines. Journal of Geophysical Research: Space Physics, 2018, 123, 8473-8488.	0.8	23

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145	Solar Wind Turbulence Studies Using MMS Fast Plasma Investigation Data. Astrophysical Journal, 2018, 866, 81.	1.6	48
146	Simultaneous Multispacecraft Probing of Electron Phase Space Holes. Geophysical Research Letters, 2018, 45, 11,513.	1.5	35
147	Ion Kinetics in a Hot Flow Anomaly: MMS Observations. Geophysical Research Letters, 2018, 45, 11,520.	1.5	28
148	Measurement of the Magnetic Reconnection Rate in the Earth's Magnetotail. Journal of Geophysical Research: Space Physics, 2018, 123, 9150-9168.	0.8	50
149	A Statistical Study of Slowâ€Mode Shocks Observed by MMS in the Dayside Magnetopause. Geophysical Research Letters, 2018, 45, 4675-4684.	1.5	1
150	Autogenous and efficient acceleration of energetic ions upstream of Earthâ€™s bow shock. Nature, 2018, 561, 206-210.	13.7	47
151	Electron Energization at a Reconnecting Magnetosheath Current Sheet. Geophysical Research Letters, 2018, 45, 8081-8090.	1.5	20
152	Local Excitation of Whistler Mode Waves and Associated Langmuir Waves at Dayside Reconnection Regions. Geophysical Research Letters, 2018, 45, 8793-8802.	1.5	19
153	Electron Bulk Acceleration and Thermalization at Earthâ€™s Quasiperpendicular Bow Shock. Physical Review Letters, 2018, 120, 225101.	2.9	38
154	Electronâ€Scale Measurements of Dipolarization Front. Geophysical Research Letters, 2018, 45, 4628-4638.	1.5	77
155	Observations of Whistler Waves Correlated with Electron-scale Coherent Structures in the Magnetosheath Turbulent Plasma. Astrophysical Journal, 2018, 861, 29.	1.6	46
156	Observations of the Electron Jet Generated by Secondary Reconnection in the Terrestrial Magnetotail. Astrophysical Journal, 2018, 862, 144.	1.6	43
157	The Role of the Parallel Electric Field in Electronâ€Scale Dissipation at Reconnecting Currents in the Magnetosheath. Journal of Geophysical Research: Space Physics, 2018, 123, 6533-6547.	0.8	40
158	Generation of Electron Whistler Waves at the Mirror Mode Magnetic Holes: MMS Observations and PIC Simulation. Journal of Geophysical Research: Space Physics, 2018, 123, 6383-6393.	0.8	27
159	Carriers and Sources of Magnetopause Current: MMS Case Study. Journal of Geophysical Research: Space Physics, 2018, 123, 5464-5475.	0.8	12
160	Energy Conversion and Collisionless Plasma Dissipation Channels in the Turbulent Magnetosheath Observed by the Magnetospheric Multiscale Mission. Astrophysical Journal, 2018, 862, 32.	1.6	55
161	Electron magnetic reconnection without ion coupling in Earthâ€™s turbulent magnetosheath. Nature, 2018, 557, 202-206.	13.7	263
162	MMS Observations of Harmonic Electromagnetic Ion Cyclotron Waves. Geophysical Research Letters, 2018, 45, 8764-8772.	1.5	18

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163	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.	1.5	34
164	New Insights into the Nature of Turbulence in the Earth's Magnetosheath Using Magnetospheric MultiScale Mission Data. Astrophysical Journal, 2018, 859, 127.	1.6	23
165	Solitary Waves Across Supercritical Quasiâ€Perpendicular Shocks. Geophysical Research Letters, 2018, 45, 5809-5817.	1.5	43
166	Hodographic approach for determining spacecraft trajectories through magnetic reconnection diffusion regions. Geophysical Research Letters, 2017, 44, 1625-1633.	1.5	7
167	â€œZipperâ€likeâ€•periodic magnetosonic waves: Van Allen Probes, THEMIS, and magnetospheric multiscale observations. Journal of Geophysical Research: Space Physics, 2017, 122, 1600-1610.	0.8	12
168	In situ statistical observations of Pc1 pearl pulsations and unstructured EMIC waves by the Van Allen Probes. Journal of Geophysical Research: Space Physics, 2017, 122, 105-119.	0.8	25
169	Magnetospheric Multiscale Observations of Electron Vortex Magnetic Hole in the Turbulent Magnetosheath Plasma. Astrophysical Journal Letters, 2017, 836, L27.	3.0	85
170	On the origin of the crescentâ€shaped distributions observed by MMS at the magnetopause. Journal of Geophysical Research: Space Physics, 2017, 122, 2024-2039.	0.8	43
171	Evolution of a typical ionâ€scale magnetic flux rope caused by thermal pressure enhancement. Journal of Geophysical Research: Space Physics, 2017, 122, 2040-2050.	0.8	18
172	Kinetic AlfvÃ©n wave explanation of the Hall fields in magnetic reconnection. Geophysical Research Letters, 2017, 44, 634-640.	1.5	52
173	Electron Heating at Kinetic Scales in Magnetosheath Turbulence. Astrophysical Journal, 2017, 836, 247.	1.6	50
174	Magnetospheric Multiscale mission observations of the outer electron diffusion region. Geophysical Research Letters, 2017, 44, 2049-2059.	1.5	41
175	Quantitative analysis of a Hall system in the exhaust of asymmetric magnetic reconnection. Journal of Geophysical Research: Space Physics, 2017, 122, 5277-5289.	0.8	21
176	Largeâ€scale characteristics of reconnection diffusion regions and associated magnetopause crossings observed by MMS. Journal of Geophysical Research: Space Physics, 2017, 122, 5466-5486.	0.8	48
177	The nonlinear behavior of whistler waves at the reconnecting dayside magnetopause as observed by the Magnetospheric Multiscale mission: A case study. Journal of Geophysical Research: Space Physics, 2017, 122, 5487-5501.	0.8	22
178	MMS observations of whistler waves in electron diffusion region. Geophysical Research Letters, 2017, 44, 3954-3962.	1.5	89
179	Electron Scattering by High-frequency Whistler Waves at Earthâ€™s Bow Shock. Astrophysical Journal Letters, 2017, 842, L11.	3.0	46
180	Electron diffusion region during magnetopause reconnection with an intermediate guide field: Magnetospheric multiscale observations. Journal of Geophysical Research: Space Physics, 2017, 122, 5235-5246.	0.8	52

#	Article	IF	Citations
181	Global observations of magnetospheric highâ€m poloidal waves during the 22 June 2015 magnetic storm. Geophysical Research Letters, 2017, 44, 3456-3464.	1.5	43
182	Reconstruction of the electron diffusion region observed by the Magnetospheric Multiscale spacecraft: First results. Geophysical Research Letters, 2017, 44, 4566-4574.	1.5	27
183	Parallel electron heating in the magnetospheric inflow region. Geophysical Research Letters, 2017, 44, 4384-4392.	1.5	8
184	Structure, force balance, and topology of Earthâ€™s magnetopause. Science, 2017, 356, 960-963.	6.0	10
185	Quadrupolar pattern of the asymmetric guideâ€field reconnection. Journal of Geophysical Research: Space Physics, 2017, 122, 6349-6356.	0.8	40
186	Structure and evolution of flux transfer events near dayside magnetic reconnection dissipation region: MMS observations. Geophysical Research Letters, 2017, 44, 5951-5959.	1.5	26
187	Wave-particle energy exchange directly observed in a kinetic AlfvÃ©n-branch wave. Nature Communications, 2017, 8, 14719.	5.8	73
188	Drift waves, intense parallel electric fields, and turbulence associated with asymmetric magnetic reconnection at the magnetopause. Geophysical Research Letters, 2017, 44, 2978-2986.	1.5	46
189	EDR signatures observed by MMS in the 16 October event presented in a 2â€Ð parametric space. Journal of Geophysical Research: Space Physics, 2017, 122, 3262-3276.	0.8	2
190	A direct examination of the dynamics of dipolarization fronts using MMS. Journal of Geophysical Research: Space Physics, 2017, 122, 4335-4347.	0.8	44
191	MMS observation of inverse energy dispersion in shock drift accelerated ions. Journal of Geophysical Research: Space Physics, 2017, 122, 3232-3246.	0.8	1
192	Lower hybrid waves in the ion diffusion and magnetospheric inflow regions. Journal of Geophysical Research: Space Physics, 2017, 122, 517-533.	0.8	108
193	MMS Observation of Magnetic Reconnection in the Turbulent Magnetosheath. Journal of Geophysical Research: Space Physics, 2017, 122, 11,442.	0.8	73
194	Relativistic Electron Increase During Chorus Wave Activities on the 6-8 March 2016 Geomagnetic Storm. Journal of Geophysical Research: Space Physics, 2017, 122, 11,302-11,319.	0.8	5
195	Multipoint Observations of Energetic Particle Injections and Substorm Activity During a Conjunction Between Magnetospheric Multiscale (MMS) and Van Allen Probes. Journal of Geophysical Research: Space Physics, 2017, 122, 11,481.	0.8	42
196	Examining Coherency Scales, Substructure, and Propagation of Whistler Mode Chorus Elements With Magnetospheric Multiscale (MMS). Journal of Geophysical Research: Space Physics, 2017, 122, 11,201.	0.8	18
197	MMS Observations and Hybrid Simulations of Surface Ripples at a Marginally Quasiâ€Parallel Shock. Journal of Geophysical Research: Space Physics, 2017, 122, 11,003.	0.8	53
198	Lower Hybrid Drift Waves and Electromagnetic Electron Spaceâ€Phase Holes Associated With Dipolarization Fronts and Fieldâ€Aligned Currents Observed by the Magnetospheric Multiscale Mission During a Substorm. Journal of Geophysical Research: Space Physics, 2017, 122, 12,236.	0.8	31

#	Article	IF	Citations
199	Spacecraft and Instrument Photoelectrons Measured by the Dual Electron Spectrometers on MMS. Journal of Geophysical Research: Space Physics, 2017, 122, 11,548.	0.8	39
200	Simultaneous Remote Observations of Intense Reconnection Effects by DMSP and MMS Spacecraft During a Storm Time Substorm. Journal of Geophysical Research: Space Physics, 2017, 122, 10891-10909.	0.8	17
201	The Effect of a Guide Field on Local Energy Conversion During Asymmetric Magnetic Reconnection: MMS Observations. Journal of Geophysical Research: Space Physics, 2017, 122, 11,342.	0.8	45
202	Cold Ionospheric Ions in the Magnetic Reconnection Outflow Region. Journal of Geophysical Research: Space Physics, 2017, 122, 10,194.	0.8	19
203	MMS Observations of Reconnection at Dayside Magnetopause Crossings During Transitions of the Solar Wind to Subâ€AlfvÃ©nic Flow. Journal of Geophysical Research: Space Physics, 2017, 122, 9934-9951.	0.8	3
204	Magnetosheath Highâ€Speed Jets: Internal Structure and Interaction With Ambient Plasma. Journal of Geophysical Research: Space Physics, 2017, 122, 10,157.	0.8	23
205	Coalescence of Macroscopic Flux Ropes at the Subsolar Magnetopause: Magnetospheric Multiscale Observations. Physical Review Letters, 2017, 119, 055101.	2.9	72
206	Dayside response of the magnetosphere to a small shock compression: Van Allen Probes, Magnetospheric MultiScale, and GOESâ€13. Geophysical Research Letters, 2017, 44, 8712-8720.	1.5	15
207	High-resolution Statistics of Solar Wind Turbulence at Kinetic Scales Using the Magnetospheric Multiscale Mission. Astrophysical Journal Letters, 2017, 844, L9.	3.0	30
208	Instability of Agyrotropic Electron Beams near the Electron Diffusion Region. Physical Review Letters, 2017, 119, 025101.	2.9	46
209	Statistical analysis of MMS observations of energetic electron escape observed at/beyond the dayside magnetopause. Journal of Geophysical Research: Space Physics, 2017, 122, 9440-9463.	0.8	14
210	Structure and Dissipation Characteristics of an Electron Diffusion Region Observed by MMS During a Rapid, Normalâ€Incidence Magnetopause Crossing. Journal of Geophysical Research: Space Physics, 2017, 122, 11,901.	0.8	18
211	Multipoint Measurements of the Electron Jet of Symmetric Magnetic Reconnection with a Moderate Guide Field. Physical Review Letters, 2017, 118, 265101.	2.9	44
212	A statistical study of kineticâ€size magnetic holes in turbulent magnetosheath: MMS observations. Journal of Geophysical Research: Space Physics, 2017, 122, 8577-8588.	0.8	64
213	Influence of the Ambient Electric Field on Measurements of the Actively Controlled Spacecraft Potential by MMS. Journal of Geophysical Research: Space Physics, 2017, 122, 12,019.	0.8	9
214	The occurrence and wave properties of EMIC waves observed by the Magnetospheric Multiscale (MMS) mission. Journal of Geophysical Research: Space Physics, 2017, 122, 8228-8240.	0.8	44
215	Magnetospheric Multiscale analysis of intense fieldâ€aligned Poynting flux near the Earth's plasma sheet boundary. Geophysical Research Letters, 2017, 44, 7106-7113.	1.5	16
216	Magnetospheric Multiscale Overview and Science Objectives. , 2017, , 5-21.		23

#	Article	IF	Citations
217	The Spin-Plane Double Probe Electric Field Instrument for MMS. , 2017, , 137-165.		6
218	The Search-Coil Magnetometer for MMS. , 2017, , 257-282.		0
219	The Axial Double Probe and Fields Signal Processing for the MMS Mission. , 2017, , 167-188.		3
220	The Electron Drift Instrument for MMS. , 2017, , 283-305.		0
221	Optimized merging of search coil and fluxgate data for MMS. Geoscientific Instrumentation, Methods and Data Systems, 2016, 5, 521-530.	0.6	22
222	Magnetopause erosion during the 17 March 2015 magnetic storm: Combined fieldâ€aligned currents, auroral oval, and magnetopause observations. Geophysical Research Letters, 2016, 43, 2396-2404.	1.5	36
223	Currents and associated electron scattering and bouncing near the diffusion region at Earth's magnetopause. Geophysical Research Letters, 2016, 43, 3042-3050.	1.5	81
224	Ionâ€scale secondary flux ropes generated by magnetopause reconnection as resolved by MMS. Geophysical Research Letters, 2016, 43, 4716-4724.	1.5	95
225	Electron jet of asymmetric reconnection. Geophysical Research Letters, 2016, 43, 5571-5580.	1.5	66
226	Electron scale structures and magnetic reconnection signatures in the turbulent magnetosheath. Geophysical Research Letters, 2016, 43, 5969-5978.	1.5	92
227	Energetic electron acceleration observed by MMS in the vicinity of an Xâ€line crossing. Geophysical Research Letters, 2016, 43, 7356-7363.	1.5	21
228	Nonlinearity in chorus waves during a geomagnetic storm on 1 November 2012. Journal of Geophysical Research: Space Physics, 2016, 121, 358-373.	0.8	3
229	Study of the spacecraft potential under active control and plasma density estimates during the MMS commissioning phase. Geophysical Research Letters, 2016, 43, 4858-4864.	1.5	13
230	The dependence on geomagnetic conditions and solar wind dynamic pressure of the spatial distributions of EMIC waves observed by the Van Allen Probes. Journal of Geophysical Research: Space Physics, 2016, 121, 4362-4377.	0.8	76
231	Twoâ€scale ion meandering caused by the polarization electric field during asymmetric reconnection. Geophysical Research Letters, 2016, 43, 7831-7839.	1.5	19
232	EMIC waves and associated relativistic electron precipitation on 25â€“26 January 2013. Journal of Geophysical Research: Space Physics, 2016, 121, 11,086.	0.8	36
233	Electron-scale measurements of magnetic reconnection in space. Science, 2016, 352, aaf2939.	6.0	545
234	Observations of largeâ€amplitude, parallel, electrostatic waves associated with the Kelvinâ€Helmholtz instability by the magnetospheric multiscale mission. Geophysical Research Letters, 2016, 43, 8859-8866.	1.5	26

#	Article	IF	Citations
235	Magnetospheric ion influence on magnetic reconnection at the duskside magnetopause. Geophysical Research Letters, 2016, 43, 1435-1442.	1.5	42
236	Electron dynamics in a subprotonâ€gyroscale magnetic hole. Geophysical Research Letters, 2016, 43, 4112-4118.	1.5	49
237	Observations of energetic particle escape at the magnetopause: Early results from the MMS Energetic Ion Spectrometer (EIS). Geophysical Research Letters, 2016, 43, 5960-5968.	1.5	23
238	Transient, smallâ€scale fieldâ€aligned currents in the plasma sheet boundary layer during storm time substorms. Geophysical Research Letters, 2016, 43, 4841-4849.	1.5	30
239	Kinetic evidence of magnetic reconnection due to Kelvinâ€Helmholtz waves. Geophysical Research Letters, 2016, 43, 5635-5643.	1.5	47
240	Decay of mesoscale flux transfer events during quasiâ€continuous spatially extended reconnection at the magnetopause. Geophysical Research Letters, 2016, 43, 4755-4762.	1.5	28
241	Magnetic reconnection and modification of the Hall physics due to cold ions at the magnetopause. Geophysical Research Letters, 2016, 43, 6705-6712.	1.5	45
242	Steepening of waves at the duskside magnetopause. Geophysical Research Letters, 2016, 43, 7373-7380.	1.5	14
243	The substructure of a flux transfer event observed by the MMS spacecraft. Geophysical Research Letters, 2016, 43, 9434-9443.	1.5	33
244	MMS observations of electronâ€scale filamentary currents in the reconnection exhaust and near the X line. Geophysical Research Letters, 2016, 43, 6060-6069.	1.5	99
245	ON ELECTRON-SCALE WHISTLER TURBULENCE IN THE SOLAR WIND. Astrophysical Journal Letters, 2016, 827, L8.	3.0	49
246	Stable reconnection at the dusk flank magnetopause. Geophysical Research Letters, 2016, 43, 9374-9382.	1.5	7
247	MMS observations of large guide field symmetric reconnection between colliding reconnection jets at the center of a magnetic flux rope at the magnetopause. Geophysical Research Letters, 2016, 43, 5536-5544.	1.5	84
248	MMS observations of ionâ€scale magnetic island in the magnetosheath turbulent plasma. Geophysical Research Letters, 2016, 43, 7850-7858.	1.5	53
249	Multipoint MMS observations of fineâ€scale SAPS structure in the inner magnetosphere. Geophysical Research Letters, 2016, 43, 7294-7300.	1.5	10
250	Inverse energy dispersion of energetic ions observed in the magnetosheath. Geophysical Research Letters, 2016, 43, 7338-7347.	1.5	5
251	Observations of turbulence in a Kelvinâ€Helmholtz event on 8 September 2015 by the Magnetospheric Multiscale mission. Journal of Geophysical Research: Space Physics, 2016, 121, 11,021.	0.8	81
252	Force balance at the magnetopause determined with MMS: Application to flux transfer events. Geophysical Research Letters, 2016, 43, 11,941.	1.5	27

#	Article	IF	Citations
253	Strong current sheet at a magnetosheath jet: Kinetic structure and electron acceleration. Journal of Geophysical Research: Space Physics, 2016, 121, 9608-9618.	0.8	20
254	Magnetospheric Multiscale Mission observations and nonâ€force free modeling of a flux transfer event immersed in a superâ€AlfvÃ©nic flow. Geophysical Research Letters, 2016, 43, 6070-6077.	1.5	22
255	Magnetospheric Multiscale observations of magnetic reconnection associated with Kelvinâ€Helmholtz waves. Geophysical Research Letters, 2016, 43, 5606-5615.	1.5	104
256	Multispacecraft analysis of dipolarization fronts and associated whistler wave emissions using MMS data. Geophysical Research Letters, 2016, 43, 7279-7286.	1.5	49
257	Ion demagnetization in the magnetopause current layer observed by MMS. Geophysical Research Letters, 2016, 43, 4850-4857.	1.5	12
258	A comparative study of dipolarization fronts at MMS and Cluster. Geophysical Research Letters, 2016, 43, 6012-6019.	1.5	37
259	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.	1.5	51
260	Cold ion demagnetization near the Xâ€line of magnetic reconnection. Geophysical Research Letters, 2016, 43, 6759-6767.	1.5	35
261	Electron currents and heating in the ion diffusion region of asymmetric reconnection. Geophysical Research Letters, 2016, 43, 4691-4700.	1.5	53
262	Whistler mode waves and Hall fields detected by MMS during a dayside magnetopause crossing. Geophysical Research Letters, 2016, 43, 5943-5952.	1.5	44
263	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.	2.9	45
264	Magnetospheric Multiscale Satellites Observations of Parallel Electric Fields Associated with Magnetic Reconnection. Physical Review Letters, 2016, 116, 235102.	2.9	61
265	Magnetospheric Multiscale Observations of the Electron Diffusion Region of Large Guide Field Magnetic Reconnection. Physical Review Letters, 2016, 117, 015001.	2.9	74
266	MMS Multipoint electric field observations of smallâ€scale magnetic holes. Geophysical Research Letters, 2016, 43, 5953-5959.	1.5	42
267	Electron energization and mixing observed by MMS in the vicinity of an electron diffusion region during magnetopause reconnection. Geophysical Research Letters, 2016, 43, 6036-6043.	1.5	67
268	Observations of whistler mode waves with nonlinear parallel electric fields near the dayside magnetic reconnection separatrix by the Magnetospheric Multiscale mission. Geophysical Research Letters, 2016, 43, 5909-5917.	1.5	61
269	Estimates of terms in Ohm's law during an encounter with an electron diffusion region. Geophysical Research Letters, 2016, 43, 5918-5925.	1.5	86
270	Rippled Quasiperpendicular Shock Observed by the Magnetospheric Multiscale Spacecraft. Physical Review Letters, 2016, 117, 165101.	2.9	87

#	Article	IF	Citations
271	Dipolarization in the inner magnetosphere during a geomagnetic storm on 7 October 2015. Geophysical Research Letters, 2016, 43, 9397-9405.	1.5	7
272	Microinjections observed by MMS FEEPS in the dusk to midnight region. Geophysical Research Letters, 2016, 43, 6078-6086.	1.5	13
273	Spacecraft Observations and Analytic Theory of Crescent-Shaped Electron Distributions in Asymmetric Magnetic Reconnection. Physical Review Letters, 2016, 117, 185101.	2.9	42
274	Signatures of complex magnetic topologies from multiple reconnection sites induced by Kelvinâ€Helmholtz instability. Journal of Geophysical Research: Space Physics, 2016, 121, 9926-9939.	0.8	35
275	Reconnection guide field and quadrupolar structure observed by MMS on 16 October 2015 at 1307 UT. Journal of Geophysical Research: Space Physics, 2016, 121, 9880-9887.	0.8	10
276	Shift of the magnetopause reconnection line to the winter hemisphere under southward IMF conditions: Geotail and MMS observations. Geophysical Research Letters, 2016, 43, 5581-5588.	1.5	17
277	Finite gyroradius effects in the electron outflow of asymmetric magnetic reconnection. Geophysical Research Letters, 2016, 43, 6724-6733.	1.5	37
278	The Electron Drift Instrument for MMS. Space Science Reviews, 2016, 199, 283-305.	3.7	52
279	Magnetospheric Multiscale observations of largeâ€amplitude, parallel, electrostatic waves associated with magnetic reconnection at the magnetopause. Geophysical Research Letters, 2016, 43, 5626-5634.	1.5	66
280	Observation of highâ€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.	1.5	32
281	Motion of the MMS spacecraft relative to the magnetic reconnection structure observed on 16 October 2015 at 1307ÂUT. Geophysical Research Letters, 2016, 43, 5589-5596.	1.5	36
282	A telescopic and microscopic examination of acceleration in the June 2015 geomagnetic storm: Magnetospheric Multiscale and Van Allen Probes study of substorm particle injection. Geophysical Research Letters, 2016, 43, 6051-6059.	1.5	30
283	The Search-Coil Magnetometer for MMS. Space Science Reviews, 2016, 199, 257-282.	3.7	212
284	The Spin-Plane Double Probe Electric Field Instrument for MMS. Space Science Reviews, 2016, 199, 137-165.	3.7	543
285	The Axial Double Probe and Fields Signal Processing for the MMS Mission. Space Science Reviews, 2016, 199, 167-188.	3.7	489
286	The FIELDS Instrument Suite on MMS: Scientific Objectives, Measurements, and Data Products. Space Science Reviews, 2016, 199, 105-135.	3.7	390
287	The Magnetospheric Multiscale Magnetometers. Space Science Reviews, 2016, 199, 189-256.	3.7	896
288	Magnetospheric Multiscale Overview and Science Objectives. Space Science Reviews, 2016, 199, 5-21.	3.7	1,118

#	Article	IF	Citations
289	The Axial Double Probe and Fields Signal Processing for the MMS Mission. , 2016, 199, 167.		1
290	The Spin-Plane Double Probe Electric Field Instrument for MMS. , 2016, 199, 137.		1
291	The occurrence and wave properties of H⁺â€ He⁺â€ and O⁺â€band EMIC waves observed by the Van Allen Probes. Journal of Geophysical Research: Space Physics, 2015, 120, 7477-7492.	0.8	184
292	Spatiotemporal evolution of electron characteristics in the electron diffusion region of magnetic reconnection: Implications for acceleration and heating. Geophysical Research Letters, 2015, 42, 2586-2593.	1.5	60
293	Magnetic reconnection. Nature Physics, 2015, 11, 611-613.	6.5	4
294	Highly structured electron anisotropy in collisionless reconnection exhausts. Geophysical Research Letters, 2014, 41, 5389-5395.	1.5	33
295	A vortical dawn flank boundary layer for nearâ€radial IMF: Wind observations on 24 October 2001. Journal of Geophysical Research: Space Physics, 2014, 119, 4572-4590.	0.8	13
296	Structure of a reconnection layer poleward of the cusp: Extreme density asymmetry and a guide field. Journal of Geophysical Research: Space Physics, 2014, 119, 7343-7362.	0.8	9
297	A statistical analysis of properties of small transients in the solar wind 2007â€“2009: STEREO and Wind observations. Journal of Geophysical Research: Space Physics, 2014, 119, 689-708.	0.8	51
298	Interinstrument calibration using magnetic field data from the flux-gate magnetometer (FGM) and electron drift instrument (EDI) onboard Cluster. Geoscientific Instrumentation, Methods and Data Systems, 2014, 3, 1-11.	0.6	17
299	Slow mode structure in the nightside magnetosheath related to IMF draping. Journal of Geophysical Research: Space Physics, 2014, 119, 1121-1128.	0.8	0
300	Excitation of EMIC waves detected by the Van Allen Probes on 28 April 2013. Geophysical Research Letters, 2014, 41, 4101-4108.	1.5	55
301	In situ observations of Pc1 pearl pulsations by the Van Allen Probes. Geophysical Research Letters, 2014, 41, 1823-1829.	1.5	28
302	The Electric and Magnetic Field Instrument Suite and Integrated Science (EMFISIS) on RBSP. Space Science Reviews, 2013, 179, 127-181.	3.7	932
303	Revision of empirical electric field modeling in the inner magnetosphere using Cluster data. Journal of Geophysical Research: Space Physics, 2013, 118, 4119-4134.	0.8	30
304	In-plane electric fields in magnetic islands during collisionless magnetic reconnection. Physics of Plasmas, 2012, 19, 112902.	0.7	23
305	Deep Solar Activity Minimum 2007â€‰â€“â€‰2009: Solar Wind Properties and Major Effects on the Terrestrial Magnetosphere. Solar Physics, 2012, 281, 461.	1.0	4
306	Accelerated magnetosheath flows caused by IMF draping: Dependence on latitude. Geophysical Research Letters, 2012, 39, .	1.5	12

#	Article	IF	Citations
307	â€œCraterâ€•flux transfer events: Highroad to the X line?. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	16
308	The inversion layer of electric fields and electron phase-space-hole structure during two-dimensional collisionless magnetic reconnection. Physics of Plasmas, 2011, 18, 012904.	0.7	40
309	Magnetosheath for almostâ€aligned solar wind magnetic field and flow vectors: Wind observations across the dawnside magnetosheath at X = â˜'12 Re. Journal of Geophysical Research, 2010, 115, .	3.3	11
310	On the multispacecraft determination of periodic surface wave phase speeds and wavelengths. Journal of Geophysical Research, 2010, 115, .	3.3	11
311	Characteristics of storm time electric fields in the inner magnetosphere derived from Cluster data. Journal of Geophysical Research, 2010, 115, .	3.3	5
312	Plasma transport in the magnetotail lobes. Annales Geophysicae, 2009, 27, 3577-3590.	0.6	28
313	Survey of cold ionospheric outflows in the magnetotail. Annales Geophysicae, 2009, 27, 3185-3201.	0.6	92
314	Multispacecraft observations of the electron current sheet, neighboring magnetic islands, and electron acceleration during magnetotail reconnection. Physics of Plasmas, 2009, 16, .	0.7	57
315	Earthâ€™s ionospheric outflow dominated by hidden cold plasma. Nature Geoscience, 2009, 2, 24-27.	5.4	97
316	Reply to comment by H. Hasegawa on â€œEvolution of Kelvinâ€Helmholtz activity on the dusk flank magnetopauseâ€• Journal of Geophysical Research, 2009, 114, .	3.3	3
317	Twoâ€stage oscillatory response of the magnetopause to a tangential discontinuity/vortex sheet followed by northward IMF: Cluster observations. Journal of Geophysical Research, 2008, 113, .	3.3	14
318	Oscillation of electron counts at 500 eV downstream of the quasiâ€perpendicular bow shock. Journal of Geophysical Research, 2008, 113, .	3.3	2
319	Evolution of Kelvinâ€Helmholtz activity on the dusk flank magnetopause. Journal of Geophysical Research, 2008, 113, .	3.3	95
320	Evidence of an extended electron current sheet and its neighboring magnetic island during magnetotail reconnection. Journal of Geophysical Research, 2008, 113, .	3.3	92
321	Derivation of inner magnetospheric electric field (UNH-IMEF) model using Cluster data set. Annales Geophysicae, 2008, 26, 2887-2898.	0.6	21
322	Plasma convection in the magnetotail lobes: statistical results from Cluster EDI measurements. Annales Geophysicae, 2008, 26, 2371-2382.	0.6	31
323	High-latitude plasma convection during Northward IMF as derived from in-situ magnetospheric Cluster EDI measurements. Annales Geophysicae, 2008, 26, 2685-2700.	0.6	27
324	Cluster observations of broadband ULF waves near the dayside polar cap boundary: Two detailed multiâ€instrument event studies. Journal of Geophysical Research, 2007, 112, .	3.3	5

#	Article	IF	Citations
325	High-latitude plasma convection from Cluster EDI measurements: method and IMF-dependence. Annales Geophysicae, 2007, 25, 239-253.	0.6	99
326	High-latitude plasma convection from Cluster EDI: variances and solar wind correlations. Annales Geophysicae, 2007, 25, 1691-1707.	0.6	42
327	Electric field measurements on Cluster: comparing the double-probe and electron drift techniques. Annales Geophysicae, 2006, 24, 275-289.	0.6	64
328	IMF <i>B_Y</i> and the seasonal dependences of the electric field in the inner magnetosphere. Annales Geophysicae, 2005, 23, 2671-2678.	0.6	7
329	New features of electron diffusion regions observed at subsolar magnetic field reconnection sites. Geophysical Research Letters, 2005, 32, .	1.5	36
330	Pc 1 waves and associated unstable distributions of magnetospheric protons observed during a solar wind pressure pulse. Journal of Geophysical Research, 2005, 110, .	3.3	62
331	A statistical investigation of dayside magnetosphere erosion showing saturation of response. Journal of Geophysical Research, 2005, 110, .	3.3	16
332	Plasma convection across the polar cap, plasma mantle and cusp: Cluster EDI observations. Annales Geophysicae, 2004, 22, 2451-2461.	0.6	10
333	Electromagnetic ion cyclotron waves in the subsolar region under normal dynamic pressure: Wind observations and theory. Journal of Geophysical Research, 2004, 109, .	3.3	6
334	Temporal and spatial aspects of the cusp inferred from local and global ground- and space-based observations in a case study. Journal of Geophysical Research, 2004, 109, .	3.3	10
335	Derivation of electric potential patterns in the inner magnetosphere from Cluster EDI data: Initial results. Journal of Geophysical Research, 2004, 109, .	3.3	24
336	Tail lobe convection observed by Cluster/EDI. Journal of Geophysical Research, 2003, 108, .	3.3	12
337	The geostationary field during dayside erosion events 1996â€“2001: A joint Wind, ACE, and GOES study. Journal of Geophysical Research, 2003, 108, .	3.3	7
338	Electric field measurements in the inner magnetosphere by Cluster EDI. Journal of Geophysical Research, 2003, 108, .	3.3	26
339	Coherence Lengths of the Interplanetary Electric Field: Solar Cycle Maximum Conditions. AIP Conference Proceedings, 2003, , .	0.3	1
340	Wind-ACE solar wind correlations, 1999: An approach through spectral analysis. Journal of Geophysical Research, 2002, 107, SSH 7-1.	3.3	23
341	Active spacecraft potential control for Cluster â€“ implementation and first results. Annales Geophysicae, 2001, 19, 1289-1302.	0.6	100
342	Viscous-type processes in the solar wind-magnetosphere interaction. Space Science Reviews, 2001, 95, 443-456.	3.7	45

#	Article	IF	Citations
343	The Electron Drift Instrument on Cluster: overview of first results. Annales Geophysicae, 2001, 19, 1273-1288.	0.6	89
344	Cluster EDI convection measurements across the high-latitude plasma sheet boundary at midnight. Annales Geophysicae, 2001, 19, 1669-1681.	0.6	24
345	A uniform-twist magnetic flux rope in the solar wind. , 1999, , .		42
346	EDI convection measurements at 5â€“6 R. Annales Geophysicae, 1999, 17, 1503.	0.6	1
347	THE ELECTRON DRIFT INSTRUMENT FOR CLUSTER. Space Science Reviews, 1997, 79, 233-269.	3.7	72
348	ACTIVE SPACECRAFT POTENTIAL CONTROL. Space Science Reviews, 1997, 79, 271-302.	3.7	41
349	Observations of the lunar plasma wake from the WIND spacecraft on December 27, 1994. Geophysical Research Letters, 1996, 23, 1255-1258.	1.5	149
350	WIND measurements of proton and alpha particle flow and number density. AIP Conference Proceedings, 1996, , .	0.3	0
351	SWE, a comprehensive plasma instrument for the WIND spacecraft. Space Science Reviews, 1995, 71, 55-77.	3.7	1,059
352	Observation of electromagnetic oxygen cyclotron waves in a flickering aurora. Geophysical Research Letters, 1995, 22, 2465-2468.	1.5	31
353	Electric fields derived from electron drift measurements. Geophysical Research Letters, 1994, 21, 1863-1866.	1.5	5
354	Prompt ionization in the CRIT II barium releases. Geophysical Research Letters, 1992, 19, 973-976.	1.5	20
355	Quasistatic electric field measurements with spherical double probes on the GEOS and ISEE satellites. Space Science Reviews, 1984, 37, 269.	3.7	133
356	Ion acoustic wave forms generated by ionâ€ion streams at the Earth's bow shock. Geophysical Research Letters, 1982, 9, 207-210.	1.5	35
357	Kelvin-Helmholtz Vortices as an Interplay of Magnetosphere-Ionosphere Coupling. Frontiers in Astronomy and Space Sciences, 0, 9, .	1.1	5
358	Energetic electron microinjections observed by MMS in the dusk plasma sheet and drift resonance interpretation. Geophysical Research Letters, 0, , .	1.5	0