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List of Publications by Year
in descending order

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361 papers	25,025 citations	8159 76 h-index	9553 142 g-index
368 all docs	368 docs citations	368 times ranked	3638 citing authors

#	Article	IF	Citations
1	The THEMIS Mission. Space Science Reviews, 2008, 141, 5-34.	3.7	1,256
2	Bursty bulk flows in the inner central plasma sheet. Journal of Geophysical Research, 1992, 97, 4027-4039.	3.3	980
3	The THEMIS ESA Plasma Instrument and In-flight Calibration. Space Science Reviews, 2008, 141, 277-302.	3.7	893
4	Neutral line model of substorms: Past results and present view. Journal of Geophysical Research, 1996, 101, 12975-13010.	3.3	861
5	Statistical characteristics of bursty bulk flow events. Journal of Geophysical Research, 1994, 99, 21257.	3.3	642
6	Tail Reconnection Triggering Substorm Onset. Science, 2008, 321, 931-935.	6.0	551
7	THEMIS observations of an earthwardâ€propagating dipolarization front. Geophysical Research Letters, 2009, 36, .	1.5	523
8	The Electric Field Instrument (EFI) for THEMIS. Space Science Reviews, 2008, 141, 303-341.	3.7	397
9	Motion of the dipolarization front during a flow burst event observed by Cluster. Geophysical Research Letters, 2002, 29, 3-1-3-4.	1.5	355
10	The Space Physics Environment Data Analysis System (SPEDAS). Space Science Reviews, 2019, 215, 9.	3.7	332
11	A THEMIS multicase study of dipolarization fronts in the magnetotail plasma sheet. Journal of Geophysical Research, 2011, 116, .	3.3	305
12	Spatial scale of high-speed flows in the plasma sheet observed by Cluster. Geophysical Research Letters, 2004, 31, n/a-n/a.	1.5	291
13	Detection of localized, plasma-depleted flux tubes or bubbles in the midtail plasma sheet. Journal of Geophysical Research, 1996, 101, 10817-10826.	3.3	284
14	Global distribution of whistlerâ€mode chorus waves observed on the THEMIS spacecraft. Geophysical Research Letters, 2009, 36, .	1.5	282
15	On the current sheets surrounding dipolarizing flux bundles in the magnetotail: The case for wedgelets. Journal of Geophysical Research: Space Physics, 2013, 118, 2000-2020.	0.8	278
16	The THEMIS Array of Ground-based Observatories forÂthe Study of Auroral Substorms. Space Science Reviews, 2008, 141, 357-387.	3.7	274
17	The ARTEMIS Mission. Space Science Reviews, 2011, 165, 3-25.	3.7	257
18	Identifying the Driver of Pulsating Aurora. Science, 2010, 330, 81-84.	6.0	249

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19	Current sheet structure near magnetic X-line observed by Cluster. Geophysical Research Letters, 2003, 30, .	1.5	240
20	Electromagnetic Energy Conversion at Reconnection Fronts. Science, 2013, 341, 1478-1482.	6.0	234
21	Global distribution of wave amplitudes and wave normal angles of chorus waves using THEMIS wave observations. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	230
22	THEMIS observations of electromagnetic ion cyclotron wave occurrence: Dependence on AE, SYMH, and solar wind dynamic pressure. Journal of Geophysical Research, 2012, 117, .	3.3	223
23	Substorm triggering by new plasma intrusion: THEMIS allâ€sky imager observations. Journal of Geophysical Research, 2010, 115, .	3.3	221
24	Local structure of the magnetotail current sheet: 2001 Cluster observations. Annales Geophysicae, 2006, 24, 247-262.	0.6	220
25	Kinetic structure of the sharp injection/dipolarization front in the flowâ€braking region. Geophysical Research Letters, 2009, 36, .	1.5	219
26	Statistical characteristics of particle injections throughout the equatorial magnetotail. Journal of Geophysical Research: Space Physics, 2014, 119, 2512-2535.	0.8	180
27	Characteristics of ion flow in the quiet state of the inner plasma sheet. Geophysical Research Letters, 1993, 20, 1711-1714.	1.5	177
28	Electric current and magnetic field geometry in flapping magnetotail current sheets. Annales Geophysicae, 2005, 23, 1391-1403.	0.6	171
29	First Results from the THEMIS Mission. Space Science Reviews, 2008, 141, 453-476.	3.7	171
30	Dipolarization fronts as a consequence of transient reconnection: In situ evidence. Geophysical Research Letters, 2013, 40, 6023-6027.	1.5	168
31	Magnetotail flow bursts: Association to global magnetospheric circulation, relationship to ionospheric activity and direct evidence for localization. Geophysical Research Letters, 1997, 24, 2271-2274.	1.5	163
32	Multiple overshoot and rebound of a bursty bulk flow. Geophysical Research Letters, 2010, 37, .	1.5	153
33	Accelerated ions ahead of earthward propagating dipolarization fronts. Journal of Geophysical Research, 2010, 115, .	3.3	153
34	Substorm current wedge driven by plasma flow vortices: THEMIS observations. Journal of Geophysical Research, 2009, 114, .	3.3	149
35	Magnetic flux transport by dipolarizing flux bundles. Journal of Geophysical Research: Space Physics, 2014, 119, 909-926.	0.8	149
36	Pulsating aurora from electron scattering by chorus waves. Nature, 2018, 554, 337-340.	13.7	149

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37	THEMIS ESA First Science Results and Performance Issues. Space Science Reviews, 2008, 141, 477-508.	3.7	148
38	THEMIS analysis of observed equatorial electron distributions responsible for the chorus excitation. Journal of Geophysical Research, 2010, 115, .	3.3	148
39	Cluster observation of a bifurcated current sheet. Geophysical Research Letters, 2003, 30, .	1.5	142
40	Recent advances in understanding substorm dynamics. Geophysical Research Letters, 2012, 39, .	1.5	129
41	The effects of transient, localized electric fields on equatorial electron acceleration and transport toward the inner magnetosphere. Journal of Geophysical Research, 2012, 117, .	3.3	124
42	Current sheet measurements within a flapping plasma sheet. Journal of Geophysical Research, 1998, 103, 9177-9187.	3.3	119
43	Average thermodynamic and spectral properties of plasma in and around dipolarizing flux bundles. Journal of Geophysical Research: Space Physics, 2015, 120, 4369-4383.	0.8	119
44	Global distributions of suprathermal electrons observed on THEMIS and potential mechanisms for access into the plasmasphere. Journal of Geophysical Research, 2010, 115, .	3.3	118
45	Fast flow during current sheet thinning. Geophysical Research Letters, 2002, 29, 55-1-55-4.	1.5	114
46	Survey of large-amplitude flapping motions in the midtail current sheet. Annales Geophysicae, 2006, 24, 2015-2024.	0.6	112
47	Transient and localized processes in the magnetotail: a review. Annales Geophysicae, 2008, 26, 955-1006.	0.6	112
48	Whistlerâ€mode waves inside flux pileup region: Structured or unstructured?. Journal of Geophysical Research: Space Physics, 2014, 119, 9089-9100.	0.8	112
49	Energetic electron injections deep into the inner magnetosphere associated with substorm activity. Geophysical Research Letters, 2015, 42, 2079-2087.	1.5	112
50	Evaluation of whistlerâ€mode chorus intensification on the nightside during an injection event observed on the THEMIS spacecraft. Journal of Geophysical Research, 2009, 114, .	3.3	108
51	Application and validation of the spherical elementary currents systems technique for deriving ionospheric equivalent currents with the North American and Greenland ground magnetometer arrays. Journal of Geophysical Research, 2011, 116, .	3.3	107
52	First observations of foreshock bubbles upstream of Earth's bow shock: Characteristics and comparisons to HFAs. Journal of Geophysical Research: Space Physics, 2013, 118, 1552-1570.	0.8	102
53	Characteristics of the Poynting flux and wave normal vectors of whistlerâ€mode waves observed on THEMIS. Journal of Geophysical Research: Space Physics, 2013, 118, 1461-1471.	0.8	101
54	Typical properties of rising and falling tone chorus waves. Geophysical Research Letters, 2011, 38, n/a-n/a.	1.5	100

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55	The role of localized inductive electric fields in electron injections around dipolarizing flux bundles. Journal of Geophysical Research: Space Physics, 2016, 121, 9560-9585.	0.8	95
56	Largeâ€amplitude electric fields associated with bursty bulk flow braking in the Earth's plasma sheet. Journal of Geophysical Research: Space Physics, 2015, 120, 1832-1844.	0.8	94
57	Can flow bursts penetrate into the inner magnetosphere?. Geophysical Research Letters, 2011, 38, n/a-n/a.	1.5	93
58	Evidence of an extended electron current sheet and its neighboring magnetic island during magnetotail reconnection. Journal of Geophysical Research, 2008, 113, .	3.3	92
59	A THEMIS survey of flux ropes and traveling compression regions: Location of the near-Earth reconnection site during solar minimum. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	91
60	Plasma sheet electromagnetic power generation and its dissipation along auroral field lines. Journal of Geophysical Research, 2002, 107, SMP 14-1-SMP 14-20.	3.3	90
61	Characteristics of plasma flows at the inner edge of the plasma sheet. Journal of Geophysical Research, 2011, 116, .	3.3	89
62	Multi-spacecraft observation of plasma dipolarization/injection in the inner magnetosphere. Annales Geophysicae, 2007, 25, 801-814.	0.6	88
63	Modeling inward diffusion and slow decay of energetic electrons in the Earth's outer radiation belt. Geophysical Research Letters, 2015, 42, 987-995.	1.5	87
64	Structure and dynamics of a new class of thin current sheets. Journal of Geophysical Research, 2006, 111, .	3.3	85
65	Multievent study of the correlation between pulsating aurora and whistler mode chorus emissions. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	85
66	Turbulent heating and crossâ€field transport near the magnetopause from THEMIS. Geophysical Research Letters, 2008, 35, .	1.5	84
67	Multipoint observations of dipolarization front formation by magnetotail reconnection. Journal of Geophysical Research, 2012, 117, .	3.3	84
68	Energetic electrons in dipolarization events: Spatial properties and anisotropy. Journal of Geophysical Research: Space Physics, 2014, 119, 3604-3616.	0.8	84
69	Thin Current Sheets in the Magnetotail Observed by Cluster. Space Science Reviews, 2006, 122, 29-38.	3.7	83
70	Relativistic electron loss due to ultralow frequency waves and enhanced outward radial diffusion. Journal of Geophysical Research, 2010, 115, .	3.3	83
71	Interaction of dipolarization fronts within multiple bursty bulk flows in global MHD simulations of a substorm on 27 February 2009. Journal of Geophysical Research, 2011, 116, .	3.3	83
72	Characteristics of hissâ€like and discrete whistlerâ€mode emissions. Geophysical Research Letters, 2012, 39, .	1.5	83

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73	Quasi-parallel whistler mode waves observed by THEMIS during near-earth dipolarizations. Annales Geophysicae, 2009, 27, 2259-2275.	0.6	83
74	Anomalous magnetosheath flows and distorted subsolar magnetopause for radial interplanetary magnetic fields. Geophysical Research Letters, 2009, 36, .	1.5	81
75	Cluster observations of an ionâ€scale current sheet in the magnetotail under the presence of a guide field. Journal of Geophysical Research, 2008, 113, .	3.3	80
76	Electron fluxes and pitchâ€angle distributions at dipolarization fronts: THEMIS multipoint observations. Journal of Geophysical Research: Space Physics, 2013, 118, 744-755.	0.8	80
77	Radiation belt electron acceleration during the 17 March 2015 geomagnetic storm: Observations and simulations. Journal of Geophysical Research: Space Physics, 2016, 121, 5520-5536.	0.8	77
78	Suprathermal particle energization in dipolarization fronts: Particleâ€inâ€cell simulations. Journal of Geophysical Research: Space Physics, 2016, 121, 9483-9500.	0.8	77
79	Magnetospheric location of the equatorward prebreakup arc. Journal of Geophysical Research, 2012, 117, .	3.3	76
80	Structures of dayside whistlerâ€mode waves deduced from conjugate diffuse aurora. Journal of Geophysical Research: Space Physics, 2013, 118, 664-673.	0.8	76
81	Time History of Events and Macroscale Interactions during Substorms observations of a series of hot flow anomaly events. Journal of Geophysical Research, 2010, 115, .	3.3	75
82	Mechanism of substorm current wedge formation: THEMIS observations. Geophysical Research Letters, 2012, 39, .	1.5	75
83	Explosive Magnetotail Activity. Space Science Reviews, 2019, 215, 31.	3.7	75
84	Magnetotail reconnection onset caused by electron kinetics with a strong external driver. Nature Communications, 2020, 11, 5049.	5.8	75
85	Poloidal ULF wave observed in the plasmasphere boundary layer. Journal of Geophysical Research: Space Physics, 2013, 118, 4298-4307.	0.8	74
86	Quantified energy dissipation rates in the terrestrial bow shock: 2. Waves and dissipation. Journal of Geophysical Research: Space Physics, 2014, 119, 6475-6495.	0.8	74
87	On the nature of precursor flows upstream of advancing dipolarization fronts. Journal of Geophysical Research, 2011, 116, .	3.3	73
88	Dipolarization fronts in the magnetotail plasma sheet. Planetary and Space Science, 2011, 59, 517-525.	0.9	73
89	Ion bulk heating in magnetic reconnection exhausts at Earth's magnetopause: Dependence on the inflow AlfvÃ©n speed and magnetic shear angle. Geophysical Research Letters, 2014, 41, 7002-7010.	1.5	73
90	Spectral properties of the ionospheric AlfvÃ©n resonator observed at a low-latitude station (L= 1.3). Journal of Geophysical Research, 2002, 107, SIA 4-1.	3.3	72

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91	Thinning and stretching of the plasma sheet. Journal of Geophysical Research, 2007, 112, .	3.3	70
92	The quasiâ€electrostatic mode of chorus waves and electron nonlinear acceleration. Journal of Geophysical Research: Space Physics, 2014, 119, 1606-1626.	0.8	70
93	Diversion of plasma due to high pressure in the inner magnetosphere during steady magnetospheric convection. Journal of Geophysical Research, 2012, 117, .	3.3	69
94	Modulation of whistler mode chorus waves: 2. Role of density variations. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	68
95	Radial distributions of equatorial phase space density for outer radiation belt electrons. Geophysical Research Letters, 2012, 39, .	1.5	68
96	Modulation of whistler mode chorus waves: 1. Role of compressional Pc4-5 pulsations. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	67
97	Direct evidence for EMIC wave scattering of relativistic electrons in space. Journal of Geophysical Research: Space Physics, 2016, 121, 6620-6631.	0.8	67
98	Coupling of dipolarization front flow bursts to substorm expansion phase phenomena within the magnetosphere and ionosphere. Journal of Geophysical Research, 2012, 117, .	3.3	66
99	On the role of pressure and flow perturbations around dipolarizing flux bundles. Journal of Geophysical Research: Space Physics, 2013, 118, 7104-7118.	0.8	66
100	First observation of risingâ€tone magnetosonic waves. Geophysical Research Letters, 2014, 41, 7419-7426.	1.5	66
101	Dipolarizing flux bundles in the cisâ€geosynchronous magnetosphere: Relationship between electric fields and energetic particle injections. Journal of Geophysical Research: Space Physics, 2016, 121, 1362-1376.	0.8	66
102	On the force balance around dipolarization fronts within bursty bulk flows. Journal of Geophysical Research, 2011, 116, .	3.3	65
103	Equatorward moving auroral signatures of a flow burst observed prior to auroral onset. Geophysical Research Letters, 2009, 36, .	1.5	64
104	Relations between multiple auroral streamers, pre-onset thin arc formation, and substorm auroral onset. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	64
105	Substorm growth and expansion onset as observed with ideal ground-spacecraft THEMIS coverage. Journal of Geophysical Research, 2011, 116, .	3.3	63
106	Energetic particle injections to geostationary orbit: Relationship to flow bursts and magnetospheric state. Journal of Geophysical Research, 2012, 117, .	3.3	63
107	Observations of kinetic ballooning/interchange instability signatures in the magnetotail. Geophysical Research Letters, 2012, 39, .	1.5	62
108	Substorm current wedge composition by wedgelets. Geophysical Research Letters, 2015, 42, 1669-1676.	1.5	62

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109	Observational evidence of the generation mechanism for rising-tone chorus. Geophysical Research Letters, 2011, 38, n/a-n/a.	1.5	61
110	Current structures associated with dipolarization fronts. Journal of Geophysical Research: Space Physics, 2013, 118, 6980-6985.	0.8	61
111	Thin current sheet in the substorm late growth phase: Modeling of THEMIS observations. Journal of Geophysical Research, 2009, 114, .	3.3	60
112	Plasma sheet thickness during a bursty bulk flow reversal. Journal of Geophysical Research, 2010, 115, .	3.3	60
113	Pressure and entropy changes in the flowâ€braking region during magnetic field dipolarization. Journal of Geophysical Research, 2010, 115, .	3.3	60
114	Characterizing the dayside magnetosheath using energetic neutral atoms: IBEX and THEMIS observations. Journal of Geophysical Research: Space Physics, 2013, 118, 3126-3137.	0.8	59
115	Coordinated SuperDARN THEMIS ASI observations of mesoscale flow bursts associated with auroral streamers. Journal of Geophysical Research: Space Physics, 2014, 119, 142-150.	0.8	58
116	Case studies of mirror-mode structures observed by THEMIS in the near-Earth tail during substorms. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	56
117	Time-dependent magnetospheric configuration and breakup mapping during a substorm. Journal of Geophysical Research, 2011, 116, .	3.3	56
118	On the origin of pressure and magnetic perturbations ahead of dipolarization fronts. Journal of Geophysical Research: Space Physics, 2014, 119, 211-220.	0.8	56
119	Extensive electron transport and energization via multiple, localized dipolarizing flux bundles. Journal of Geophysical Research: Space Physics, 2017, 122, 5059-5076.	0.8	56
120	Azimuthal plasma pressure gradient in quiet time plasma sheet. Geophysical Research Letters, 2009, 36, .	1.5	55
121	Energy transport by kineticâ€scale electromagnetic waves in fast plasma sheet flows. Journal of Geophysical Research, 2012, 117, .	3.3	55
122	Testing a twoâ€loop pattern of the substorm current wedge (SCW2L). Journal of Geophysical Research: Space Physics, 2014, 119, 947-963.	0.8	55
123	Relativistic Electrons Produced by Foreshock Disturbances Observed Upstream of Earthâ€™s Bow Shock. Physical Review Letters, 2016, 117, 215101.	2.9	55
124	THEMIS multiâ€spacecraft observations of magnetosheath plasma penetration deep into the dayside lowâ€latitude magnetosphere for northward and strong B_y IMF. Geophysical Research Letters, 2008, 35, .	1.5	54
125	Current carriers near dipolarization fronts in the magnetotail: A THEMIS event study. Journal of Geophysical Research, 2011, 116, .	3.3	54
126	Threeâ€dimensional lunar wake reconstructed from ARTEMIS data. Journal of Geophysical Research: Space Physics, 2014, 119, 5220-5243.	0.8	54

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127	Characteristic energy range of electron scattering due to plasmaspheric hiss. Journal of Geophysical Research: Space Physics, 2016, 121, 11,737.	0.8	54
128	Optical characterization of the growth and spatial structure of a substorm onset arc. Journal of Geophysical Research, 2010, 115, .	3.3	53
129	THEMIS observation of chorus elements without a gap at half the gyrofrequency. Journal of Geophysical Research, 2012, 117, .	3.3	52
130	A unified approach to inner magnetospheric state prediction. Journal of Geophysical Research: Space Physics, 2016, 121, 2423-2430.	0.8	52
131	Spatial Extent and Temporal Correlation of Chorus and Hiss: Statistical Results From Multipoint THEMIS Observations. Journal of Geophysical Research: Space Physics, 2018, 123, 8317-8330.	0.8	52
132	Preonset time sequence of auroral substorms: Coordinated observations by allâ€sky imagers, satellites, and radars. Journal of Geophysical Research, 2010, 115, .	3.3	51
133	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
134	The relation between the northern polar cap and auroral electrojet geomagnetic indices in the wintertime. Geophysical Research Letters, 1996, 23, 2781-2784.	1.5	50
135	Substorm onset by new plasma intrusion: THEMIS spacecraft observations. Journal of Geophysical Research, 2010, 115, .	3.3	50
136	Substorm triggering by poleward boundary intensification and related equatorward propagation. Journal of Geophysical Research, 2011, 116, .	3.3	50
137	Transient electron precipitation during oscillatory BBF braking: THEMIS observations and theoretical estimates. Journal of Geophysical Research: Space Physics, 2013, 118, 3065-3076.	0.8	50
138	Simulation of energyâ€dependent electron diffusion processes in the Earth's outer radiation belt. Journal of Geophysical Research: Space Physics, 2016, 121, 4217-4231.	0.8	50
139	Dipolarization fronts and associated auroral activities: 2. Acceleration of ions and their subsequent behavior. Journal of Geophysical Research, 2012, 117, .	3.3	48
140	Threeâ€dimensional magnetic flux rope structure formed by multiple sequential Xâ€line reconnection at the magnetopause. Journal of Geophysical Research: Space Physics, 2013, 118, 1904-1911.	0.8	48
141	First evidence for chorus at a large geocentric distance as a source of plasmaspheric hiss: Coordinated THEMIS and Van Allen Probes observation. Geophysical Research Letters, 2015, 42, 241-248.	1.5	48
142	Hall effect control of magnetotail dawnâ€dusk asymmetry: A threeâ€dimensional global hybrid simulation. Journal of Geophysical Research: Space Physics, 2016, 121, 11,882.	0.8	48
143	Toward adapted timeâ€dependent magnetospheric models: A simple approach based on tuning the standard model. Journal of Geophysical Research, 2009, 114, .	3.3	47
144	ARTEMIS Science Objectives. Space Science Reviews, 2011, 165, 59-91.	3.7	47

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145	Quantified energy dissipation rates in the terrestrial bow shock: 1. Analysis techniques and methodology. Journal of Geophysical Research: Space Physics, 2014, 119, 6455-6474.	0.8	47
146	Evolution of Electron Distribution Driven by Nonlinear Resonances With Intense Fieldâ€Aligned Chorus Waves. Journal of Geophysical Research: Space Physics, 2018, 123, 8149-8169.	0.8	47
147	Characterization of ULF pulsations by THEMIS. Geophysical Research Letters, 2009, 36, .	1.5	46
148	Solar wind influence on Pc4 and Pc5 ULF wave activity in the inner magnetosphere. Journal of Geophysical Research, 2010, 115, .	3.3	46
149	Energetic ions in dipolarization events. Journal of Geophysical Research: Space Physics, 2015, 120, 7698-7717.	0.8	46
150	Whistler and Electron Firehose Instability Control of Electron Distributions in and Around Dipolarizing Flux Bundles. Geophysical Research Letters, 2018, 45, 9380-9389.	1.5	46
151	Response to Comment on â€œTail Reconnection Triggering Substorm Onsetâ€• Science, 2009, 324, 1391-1391.	6.0	45
152	Standing AlfvÃ©n waves at the magnetopause. Geophysical Research Letters, 2009, 36, .	1.5	45
153	First Results from ARTEMIS, a New Two-Spacecraft Lunar Mission: Counter-Streaming Plasma Populations in the Lunar Wake. Space Science Reviews, 2011, 165, 93-107.	3.7	44
154	Emergence of the active magnetotail plasma sheet boundary from transient, localized ion acceleration. Journal of Geophysical Research, 2012, 117, .	3.3	43
155	Determination of the substorm initiation region from a major conjunction interval of THEMIS satellites. Journal of Geophysical Research, 2008, 113, .	3.3	42
156	Gyroâ€resonant scattering of radiation belt electrons during the solar minimum by fast magnetosonic waves. Journal of Geophysical Research: Space Physics, 2013, 118, 648-652.	0.8	42
157	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
158	Substorm evolution as revealed by THEMIS satellites and a global MHD simulation. Journal of Geophysical Research, 2009, 114, .	3.3	41
159	Steady magnetospheric convection and stream interfaces: Relationship over a solar cycle. Journal of Geophysical Research, 2011, 116, .	3.3	41
160	Electromagnetic waves on ion gyroâ€radii scales across the magnetopause. Geophysical Research Letters, 2011, 38, .	1.5	41
161	Kinetic ballooning/interchange instability in a bent plasma sheet. Journal of Geophysical Research, 2012, 117, .	3.3	41
162	Observations of an active thin current sheet. Journal of Geophysical Research, 2008, 113, .	3.3	40

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163	ARTEMIS observations of lunar pickâ€up ions in the terrestrial magnetotail lobes. Geophysical Research Letters, 2012, 39, .	1.5	40
164	Formation of substorm Pi2: A coherent response to auroral streamers and currents. Journal of Geophysical Research, 2012, 117, .	3.3	40
165	Comparison of multi-point measurements of current sheet structure and analytical models. Annales Geophysicae, 2008, 26, 2749-2758.	0.6	39
166	Survival of flux transfer event (FTE) flux ropes far along the tail magnetopause. Journal of Geophysical Research, 2012, 117, .	3.3	39
167	Observation and modeling of the injection observed by THEMIS and LANL satellites during the 23 March 2007 substorm event. Journal of Geophysical Research, 2009, 114, .	3.3	38
168	Fast earthward flows, electron cyclotron harmonic waves, and diffuse auroras: Conjunctive observations and a synthesized scenario. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	38
169	Crater FTEs: Simulation results and THEMIS observations. Geophysical Research Letters, 2008, 35, .	1.5	37
170	Utilizing the Heliophysics/Geospace System Observatory to Understand Particle Injections: Their Scale Sizes and Propagation Directions. Journal of Geophysical Research: Space Physics, 2019, 124, 5584-5609.	0.8	37
171	THEMIS observations of the spatial extent and pressureâ€pulse excitation of field line resonances. Geophysical Research Letters, 2010, 37, .	1.5	36
172	Stopping flow bursts and their role in the generation of the substorm current wedge. Geophysical Research Letters, 2014, 41, 1106-1112.	1.5	36
173	Space weather conditions during the Galaxy 15 spacecraft anomaly. Space Weather, 2015, 13, 484-502.	1.3	36
174	Properties of current sheet thinning at x â^¼â^' 10 to â^'12ÂR_E. Journal of Geophysical Research: Space Physics, 2016, 121, 6718-6731.	0.8	36
175	Flux transport, dipolarization, and current sheet evolution during a double-onset substorm. Journal of Geophysical Research, 2011, 116, .	3.3	35
176	Diamagnetic oscillations ahead of stopped dipolarization fronts. Journal of Geophysical Research: Space Physics, 2014, 119, 1643-1657.	0.8	35
177	Statistical results describing the bandwidth and coherence coefficient of whistler mode waves using THEMIS waveform data. Journal of Geophysical Research: Space Physics, 2014, 119, 8992-9003.	0.8	35
178	On the Acceleration and Anisotropy of Ions Within Magnetotail Dipolarizing Flux Bundles. Journal of Geophysical Research: Space Physics, 2018, 123, 429-442.	0.8	35
179	Modeling a forceâ€free flux transfer event probed by multiple Time History of Events and Macroscale Interactions during Substorms (THEMIS) spacecraft. Journal of Geophysical Research, 2008, 113, .	3.3	34
180	Transition from substorm growth to substorm expansion phase as observed with a radial configuration of ISTP and Cluster spacecraft. Annales Geophysicae, 2005, 23, 2183-2198.	0.6	33

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181	THEMIS observations of a secondary magnetic island within the Hall electromagnetic field region at the magnetopause. Geophysical Research Letters, 2010, 37, .	1.5	33
182	Triggering of magnetic reconnection in a magnetosheath current sheet due to compression against the magnetopause. Geophysical Research Letters, 2011, 38, n/a-n/a.	1.5	33
183	On the radial force balance in the quiet time magnetotail current sheet. Journal of Geophysical Research: Space Physics, 2016, 121, 4017-4026.	0.8	33
184	Formation of Dawnâ€Dusk Asymmetry in Earth's Magnetotail Thin Current Sheet: A Threeâ€Dimensional Particleâ€Inâ€Cell Simulation. Journal of Geophysical Research: Space Physics, 2018, 123, 2801-2814.	0.8	33
185	Observation of repeated intense near-Earth reconnection on closed field lines with Cluster, Double Star, and other spacecraft. Geophysical Research Letters, 2007, 34, .	1.5	32
186	Near-Earth plasma sheet azimuthal pressure gradient and associated auroral development soon before substorm onset. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	32
187	On an energyâ€latitude dispersion pattern of ion precipitation potentially associated with magnetospheric EMIC waves. Journal of Geophysical Research: Space Physics, 2014, 119, 8137-8160.	0.8	32
188	Crossâ€tail expansion of dipolarizing flux bundles. Journal of Geophysical Research: Space Physics, 2015, 120, 2516-2530.	0.8	32
189	On the generation of magnetic dips ahead of advancing dipolarization fronts. Geophysical Research Letters, 2015, 42, 4256-4262.	1.5	32
190	The Hall Electric Field in Earth's Magnetotail Thin Current Sheet. Journal of Geophysical Research: Space Physics, 2019, 124, 1052-1062.	0.8	32
191	Response of the inner magnetosphere and the plasma sheet to a sudden impulse. Journal of Geophysical Research, 2008, 113, .	3.3	31
192	Evidence that crater flux transfer events are initial stages of typical flux transfer events. Journal of Geophysical Research, 2010, 115, .	3.3	31
193	Magnetic flux transfer in the 5 April 2010 Galaxy 15 substorm: an unprecedented observation. Annales Geophysicae, 2011, 29, 619-622.	0.6	31
194	Evidence of kinetic AlfvÃ©n eigenmode in the nearâ€Earth magnetotail during substorm expansion phase. Journal of Geophysical Research: Space Physics, 2016, 121, 4316-4330.	0.8	31
195	Ion velocity distributions in dipolarization events: Distributions in the central plasma sheet. Journal of Geophysical Research: Space Physics, 2017, 122, 8014-8025.	0.8	31
196	Statistical Properties of Subâ€ion Magnetic Holes in the Dipolarized Magnetotail: Formation, Structure, and Dynamics. Journal of Geophysical Research: Space Physics, 2019, 124, 342-359.	0.8	31
197	Substorm expansion triggered by a sudden impulse front propagating from the dayside magnetopause. Journal of Geophysical Research, 2009, 114, .	3.3	30
198	Magnetic reconnection X-line retreat associated with dipolarization of the Earth's magnetosphere. Geophysical Research Letters, 2011, 38, n/a-n/a.	1.5	30

#	Article	IF	Citations
199	Estimation of magnetic field mapping accuracy using the pulsating aurora-chorus connection. Geophysical Research Letters, 2011, 38, n/a-n/a.	1.5	29
200	Pressure anisotropy in global magnetospheric simulations: A magnetohydrodynamics model. Journal of Geophysical Research, 2012, 117, .	3.3	29
201	Observations of plasma waves in the colliding jet region of a magnetic flux rope flanked by two active X lines at the subsolar magnetopause. Journal of Geophysical Research: Space Physics, 2014, 119, 6256-6272.	0.8	29
202	Formation of current density profile in tilted current sheets. Annales Geophysicae, 2008, 26, 3669-3676.	0.6	29
203	Magnetotail Fast Flow Occurrence Rate and Dawnâ€Dusk Asymmetry at X_{GSM}Âˆ¼Âˆ’60ÂR_E. Journal of Geophysical Research: Space Physics, 2018, 123, 1767-1778.	0.8	28
204	Evidence that solar wind fluctuations substantially affect global convection and substorm occurrence. Journal of Geophysical Research, 2009, 114, .	3.3	27
205	Estimation of magnetosphereâ€ionosphere mapping accuracy using isotropy boundary and THEMIS observations. Journal of Geophysical Research, 2010, 115, .	3.3	27
206	Characteristics of ion distribution functions in dipolarizing flux bundles: Event studies. Journal of Geophysical Research: Space Physics, 2017, 122, 5965-5978.	0.8	27
207	Influence of Auroral Streamers on Rapid Evolution of Ionospheric SAPS Flows. Journal of Geophysical Research: Space Physics, 2017, 122, 12,406.	0.8	27
208	Nonlinear Electrostatic Steepening of Whistler Waves: The Guiding Factors and Dynamics in Inhomogeneous Systems. Geophysical Research Letters, 2018, 45, 2168-2176.	1.5	27
209	Magnetic reconnection in Earth's magnetotail: Energy conversion and its earthwardâ€“tailward asymmetry. Physics of Plasmas, 2018, 25, .	0.7	27
210	On the Kinetic Nature of Solar Wind Discontinuities. Geophysical Research Letters, 2019, 46, 1185-1194.	1.5	27
211	First remote measurements of lunar surface charging from ARTEMIS: Evidence for nonmonotonic sheath potentials above the dayside surface. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	26
212	On the fine structure of dipolarization fronts. Journal of Geophysical Research: Space Physics, 2014, 119, 6367-6385.	0.8	26
213	ARTEMIS observations of terrestrial ionospheric molecular ion outflow at the Moon. Geophysical Research Letters, 2016, 43, 6749-6758.	1.5	26
214	THEMIS observations of duskside compressional Pc5 waves. Journal of Geophysical Research, 2009, 114, .	3.3	25
215	Fast tailward flows in the plasma sheet boundary layer during a substorm on 9 March 2008: THEMIS observations. Journal of Geophysical Research, 2011, 116, .	3.3	25
216	Dipolarization fronts and associated auroral activities: 1. Conjugate observations and perspectives from global MHD simulations. Journal of Geophysical Research, 2012, 117, .	3.3	25

#	Article	IF	Citations
217	Ionospheric response to oscillatory flow braking in the magnetotail. Journal of Geophysical Research: Space Physics, 2013, 118, 1529-1544.	0.8	25
218	Antidipolarization fronts observed by ARTEMIS. Journal of Geophysical Research: Space Physics, 2014, 119, 7181-7198.	0.8	25
219	On the current density reduction ahead of dipolarization fronts. Journal of Geophysical Research: Space Physics, 2016, 121, 4269-4278.	0.8	25
220	The interaction of finiteâ€width reconnection exhaust jets with a dipolar magnetic field configuration. Journal of Geophysical Research: Space Physics, 2017, 122, 3183-3200.	0.8	25
221	Crossâ€scale observations of the 2015 St. Patrick's day storm: THEMIS, Van Allen Probes, and TWINS. Journal of Geophysical Research: Space Physics, 2017, 122, 368-392.	0.8	25
222	Characteristics of the Flank Magnetopause: THEMIS Observations. Journal of Geophysical Research: Space Physics, 2019, 124, 3421-3435.	0.8	25
223	Plasma sheet pressure evolution related to substorms. Journal of Geophysical Research, 2010, 115, .	3.3	24
224	A comparison of ARTEMIS observations and particleâ€inâ€cell modeling of the lunar photoelectron sheath in the terrestrial magnetotail. Geophysical Research Letters, 2012, 39, .	1.5	24
225	Statistical study of the magnetopause motion: First results from THEMIS. Journal of Geophysical Research, 2009, 114, .	3.3	23
226	Superposed epoch analysis of magnetotail flux transport during substorms observed by THEMIS. Journal of Geophysical Research, 2011, 116, .	3.3	23
227	Magnetopause surface waves: THEMIS observations compared to MHD theory. Journal of Geophysical Research: Space Physics, 2013, 118, 1483-1499.	0.8	23
228	On the Contribution of Dipolarizing Flux Bundles to the Substorm Current Wedge and to Flux and Energy Transport. Journal of Geophysical Research: Space Physics, 2019, 124, 5408-5420.	0.8	23
229	Multipoint in situ and groundâ€based observations during auroral intensifications. Journal of Geophysical Research, 2008, 113, .	3.3	22
230	Statistical study of substorm timing sequence. Journal of Geophysical Research, 2009, 114, .	3.3	22
231	Generation and properties of in vivo flux transfer events. Journal of Geophysical Research, 2012, 117, .	3.3	22
232	Necessity of substorm expansions in the initiation of steady magnetospheric convection. Geophysical Research Letters, 2012, 39, .	1.5	22
233	Mars's magnetotail: Nature's current sheet laboratory. Journal of Geophysical Research: Space Physics, 2017, 122, 5404-5417.	0.8	22
234	Nearâ€Earth Reconnection Ejecta at Lunar Distances. Journal of Geophysical Research: Space Physics, 2018, 123, 2736-2744.	0.8	22

#	Article	IF	Citations
235	Kinetic Properties of Solar Wind Discontinuities at 1 AU Observed by ARTEMIS. Journal of Geophysical Research: Space Physics, 2019, 124, 3858-3870.	0.8	22
236	Determination of substorm onset timing and location using the THEMIS ground based observatories. Geophysical Research Letters, 2007, 34, .	1.5	21
237	THEMIS Ground Based Observatory System Design. Space Science Reviews, 2008, 141, 213-233.	3.7	21
238	Structure, force balance, and evolution of incompressible cross-tail current sheet thinning. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	21
239	Acceleration of ions by electric field pulses in the inner magnetosphere. Journal of Geophysical Research: Space Physics, 2015, 120, 4628-4640.	0.8	21
240	Ion density and temperature profiles along (X_{GSM}) and across (Z_{GSM}) the magnetotail as observed by THEMIS, Geotail, and ARTEMIS. Journal of Geophysical Research: Space Physics, 2017, 122, 1590-1599.	0.8	21
241	â€œLomonosovâ€•Satelliteâ€”Space Observatory to Study Extreme Phenomena in Space. Space Science Reviews, 2017, 212, 1705-1738.	3.7	21
242	Ion distributions near the reconnection sites: Comparison between simulations and THEMIS observations. Journal of Geophysical Research, 2009, 114, .	3.3	20
243	Precursor activation and substorm expansion associated with observations of a dipolarization front by Time History of Events and Macroscale Interactions during Substorms (THEMIS). Journal of Geophysical Research, 2010, 115, .	3.3	20
244	ARTEMIS observations of lunar pickup ions: Mass constraints on ion species. Journal of Geophysical Research E: Planets, 2013, 118, 1766-1774.	1.5	20
245	Asymmetric braking and dawnward deflection of dipolarization fronts: Effects of ion reflection. Geophysical Research Letters, 2014, 41, 6994-7001.	1.5	20
246	Period and damping factor of Pi2 pulsations during oscillatory flow braking in the magnetotail. Journal of Geophysical Research: Space Physics, 2014, 119, 4512-4520.	0.8	20
247	Contribution of ion reflection to the energy budgets of dipolarization fronts. Geophysical Research Letters, 2016, 43, 493-500.	1.5	20
248	Solar windâ€driven variations of electron plasma sheet densities and temperatures beyond geostationary orbit during storm times. Journal of Geophysical Research: Space Physics, 2016, 121, 8343-8360.	0.8	20
249	Energy Transport by Whistler Waves Around Dipolarizing Flux Bundles. Geophysical Research Letters, 2019, 46, 11718-11727.	1.5	20
250	Testing global storm-time electric field models using particle spectra on multiple spacecraft. Journal of Geophysical Research, 2002, 107, SMP 21-1-SMP 21-11.	3.3	19
251	Multiâ€point observations of the inner boundary of the plasma sheet during geomagnetic disturbances. Geophysical Research Letters, 2008, 35, .	1.5	19
252	Simultaneous THEMIS observations in the nearâ€tail portion of the inner and outer plasma sheet flux tubes at substorm onset. Journal of Geophysical Research, 2008, 113, .	3.3	19

#	Article	IF	Citations
253	Physical mechanism causing rapid changes in ultrarelativistic electron pitch angle distributions right after a shock arrival: Evaluation of an electron dropout event. Journal of Geophysical Research: Space Physics, 2016, 121, 8300-8316.	0.8	19
254	Extremely fieldâ€aligned cool electrons in the dayside outer magnetosphere. Geophysical Research Letters, 2017, 44, 44-51.	1.5	19
255	Ion dynamics in magnetotail reconnection in the presence of density asymmetry. Journal of Geophysical Research: Space Physics, 2017, 122, 2010-2023.	0.8	19
256	Midnight sector observations of auroral omega bands. Journal of Geophysical Research, 2011, 116, .	3.3	18
257	Ion beams in the plasma sheet boundary layer. Journal of Geophysical Research: Space Physics, 2015, 120, 7522-7535.	0.8	18
258	Storm time current distribution in the inner equatorial magnetosphere: THEMIS observations. Journal of Geophysical Research: Space Physics, 2016, 121, 5250-5259.	0.8	18
259	Electron currents supporting the near-Earth magnetotail during current sheet thinning. Geophysical Research Letters, 2017, 44, 5-11.	1.5	18
260	Nearâ€Earth Solar Wind: Plasma Characteristics From ARTEMIS Measurements. Journal of Geophysical Research: Space Physics, 2018, 123, 9955-9962.	0.8	18
261	Effects of Crossâ€Sheet Density and Temperature Inhomogeneities on Magnetotail Reconnection. Geophysical Research Letters, 2019, 46, 28-36.	1.5	18
262	AME: A Cross-Scale Constellation of CubeSats to Explore Magnetic Reconnection in the Solarâ€“Terrestrial Relation. Frontiers in Physics, 2020, 8, .	1.0	18
263	Multi-point observation of the high-speed flows in the plasma sheet. Advances in Space Research, 2005, 36, 1444-1447.	1.2	17
264	A simulation study of particle energization observed by THEMIS spacecraft during a substorm. Journal of Geophysical Research, 2009, 114, .	3.3	17
265	Spatial structure and temporal evolution of a dayside poloidal ULF wave event. Geophysical Research Letters, 2011, 38, n/a-n/a.	1.5	17
266	On the formation of preâ€onset azimuthal pressure gradient in the nearâ€Earth plasma sheet. Journal of Geophysical Research, 2012, 117, .	3.3	17
267	Azimuthal extent and properties of midtail plasmoids from twoâ€point ARTEMIS observations at the Earthâ€Moon Lagrange points. Journal of Geophysical Research: Space Physics, 2014, 119, 1781-1796.	0.8	17
268	Precipitation of MeV and Subâ€MeV Electrons Due to Combined Effects of EMIC and ULF Waves. Journal of Geophysical Research: Space Physics, 2019, 124, 7923-7935.	0.8	17
269	Role of Ducting in Relativistic Electron Loss by Whistlerâ€Mode Wave Scattering. Journal of Geophysical Research: Space Physics, 2021, 126, e2021JA029851.	0.8	17
270	Propagation characteristics of plasma sheet oscillations during a small storm. Geophysical Research Letters, 2008, 35, .	1.5	16

#	Article	IF	Citations
271	Ultralow Frequency Waves Deep Inside the Inner Magnetosphere Driven by Dipolarizing Flux Bundles. Journal of Geophysical Research: Space Physics, 2017, 122, 10,112.	0.8	16
272	Transport and loss of the inner plasma sheet electrons: THEMIS observations. Journal of Geophysical Research, 2011, 116, .	3.3	15
273	Effects of electron pressure anisotropy on current sheet configuration. Physics of Plasmas, 2016, 23, .	0.7	15
274	Inner magnetosphere currents during the CIR/HSS storm on July 21â€“23, 2009. Journal of Geophysical Research, 2012, 117, .	3.3	14
275	Ion acceleration and reflection on magnetotail antidipolarization fronts. Geophysical Research Letters, 2015, 42, 9166-9175.	1.5	14
276	Magnetotail energy dissipation during an auroralÂsubstorm. Nature Physics, 2016, 12, 1158-1163.	6.5	14
277	Waves in the innermost open boundary layer formed by dayside magnetopause reconnection. Journal of Geophysical Research: Space Physics, 2017, 122, 3291-3307.	0.8	14
278	Hot Ion Flows in the Distant Magnetotail: ARTEMIS Observations From Lunar Orbit to â^¼â^'200ÂR_E. Journal of Geophysical Research: Space Physics, 2017, 122, 9898-9909.	0.8	14
279	THEMIS multispacecraft observations of a reconnecting magnetosheath current sheet with symmetric boundary conditions and a large guide field. Geophysical Research Letters, 2017, 44, 7598-7606.	1.5	14
280	Potential Evidence of Lowâ€Energy Electron Scattering and Ionospheric Precipitation by Time Domain Structures. Geophysical Research Letters, 2020, 47, e2020GL089138.	1.5	14
281	Extreme Magnetosphereâ€Ionosphereâ€Thermosphere Responses to the 5 April 2010 Supersubstorm. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027654.	0.8	14
282	Configuration of the Earthâ€™s Magnetotail Current Sheet. Geophysical Research Letters, 2021, 48, e2020GL092153.	1.5	14
283	Superthermal Proton and Electron Fluxes in the Plasma Sheet Transition Region and Their Dependence on Solar Wind Parameters. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA028580.	0.8	14
284	Relative contributions of large-scale and wedgelet currents in the substorm current wedge. Earth, Planets and Space, 2020, 72, 106.	0.9	14
285	Deformation and evolution of solar wind discontinuities through their interactions with the Earth's bow shock. Journal of Geophysical Research, 2009, 114, .	3.3	13
286	THEMIS multipoint observations of Pi2 pulsations inside and outside the plasmasphere. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	13
287	Plasmoid growth and expulsion revealed by twoâ€point ARTEMIS observations. Journal of Geophysical Research: Space Physics, 2013, 118, 2133-2144.	0.8	13
288	Comment on â€œPulsating Auroras Produced by Interactions of Electrons and Time Domain Structuresâ€• by Mozer Et Al.. Journal of Geophysical Research: Space Physics, 2018, 123, 2064-2070.	0.8	13

#	Article	IF	Citations
289	Plasma Anisotropies and Currents in the Nearâ€Earth Plasma Sheet and Inner Magnetosphere. Journal of Geophysical Research: Space Physics, 2018, 123, 5625-5639.	0.8	13
290	Modulation of Whistler Waves by Ultraâ€Lowâ€Frequency Perturbations: The Importance of Magnetopause Location. Journal of Geophysical Research: Space Physics, 2020, 125, e2020JA028334.	0.8	13
291	Observations of a quasiâ€static plasma sheet boundary. Geophysical Research Letters, 1993, 20, 2813-2816.	1.5	12
292	The Time History of Events and Macroscale Interactions during Substorms (THEMIS) Education and Outreach (E/PO) Program. Space Science Reviews, 2008, 141, 557-583.	3.7	12
293	An investigation of the association between steady magnetospheric convection and CIR stream interfaces. Geophysical Research Letters, 2010, 37, .	1.5	12
294	Auroral signatures of the plasma injection and dipolarization in the inner magnetosphere. Journal of Geophysical Research, 2010, 115, .	3.3	12
295	Multiprobe estimation of field line curvature radius in the equatorial magnetosphere and the use of proton precipitations in magnetosphereâ€ionosphere mapping. Journal of Geophysical Research: Space Physics, 2013, 118, 4924-4945.	0.8	12
296	Role of lower hybrid waves in ion heating at dipolarization fronts. Journal of Geophysical Research: Space Physics, 2017, 122, 5092-5104.	0.8	12
297	Global View of Current Sheet Thinning: Plasma Pressure Gradients and Largeâ€Scale Currents. Journal of Geophysical Research: Space Physics, 2019, 124, 264-278.	0.8	12
298	Ionosphere Feedback to Electron Scattering by Equatorial Whistler Mode Waves. Journal of Geophysical Research: Space Physics, 2020, 125, e2020JA028373.	0.8	12
299	Contribution of Anisotropic Electron Current to the Magnetotail Current Sheet as a Function of Location and Plasma Conditions. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027251.	0.8	12
300	Dependence of Relativistic Electron Precipitation in the Ionosphere on EMIC Wave Minimum Resonant Energy at the Conjugate Equator. Journal of Geophysical Research: Space Physics, 2021, 126, e2021JA029193.	0.8	12
301	Reply to comment by Harald U. Frey on â€œSubstorm triggering by new plasma intrusion: THEMIS allâ€sky imager observationsâ€. Journal of Geophysical Research, 2010, 115, .	3.3	11
302	Flow vortices associated with flux transfer events moving along the magnetopause: Observations and an MHD simulation. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	11
303	Electron and wave characteristics observed by the THEMIS satellites near the magnetic equator during a pulsating aurora. Journal of Geophysical Research, 2012, 117, .	3.3	11
304	A Case Study of Connection Between Ground Magnetic Field Perturbations and Tail Current Sheet Bursty Flows at XÂ=Ââˆ'60ÂR_E. Journal of Geophysical Research: Space Physics, 2018, 123, 1822-1833.	0.8	11
305	Intense Crossâ€Tail Fieldâ€Aligned Currents in the Plasma Sheet at Lunar Distances. Geophysical Research Letters, 2018, 45, 4610-4617.	1.5	11
306	Ion Anisotropy in Earth's Magnetotail Current Sheet: Multicomponent Ion Population. Journal of Geophysical Research: Space Physics, 2019, 124, 3454-3467.	0.8	11

#	Article	IF	Citations
307	Energetic Electron Acceleration by Ion-scale Magnetic Islands in Turbulent Magnetic Reconnection: Particle-in-cell Simulations and ARTEMIS Observations. Astrophysical Journal, 2020, 896, 105.	1.6	11
308	On the Role of Whistlerâ€Mode Waves in Electron Interaction With Dipolarizing Flux Bundles. Journal of Geophysical Research: Space Physics, 2022, 127, .	0.8	11
309	A statistical study of the inner edge of the electron plasma sheet and the net convection potential as a function of geomagnetic activity. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	10
310	RCMâ€E simulation of the 13 March 2009 steady magnetospheric convection event. Journal of Geophysical Research, 2012, 117, .	3.3	10
311	Lunar dayside current in the terrestrial lobe: ARTEMIS observations. Journal of Geophysical Research: Space Physics, 2014, 119, 3381-3391.	0.8	10
312	On the increasing oscillation period of flows at the tailward retreating flux pileup region during dipolarization. Journal of Geophysical Research: Space Physics, 2014, 119, 6603-6611.	0.8	10
313	Ion velocity distributions in dipolarization events: Beams in the vicinity of the plasma sheet boundary. Journal of Geophysical Research: Space Physics, 2017, 122, 8026-8036.	0.8	10
314	An Event Study of Simultaneous Earthward and Tailward Reconnection Exhaust Flows in the Earth's Midtail. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027406.	0.8	10
315	Particle-in-cell Simulations of Secondary Magnetic Islands: Ion-scale Flux Ropes and Plasmoids. Astrophysical Journal, 2020, 900, 145.	1.6	10
316	Coordinated observation of the dayside magnetospheric entry and exit of the THEMIS satellites with groundâ€based auroral imaging in Antarctica. Journal of Geophysical Research, 2009, 114, .	3.3	9
317	A probability assessment of encountering dayside magnetopause diffusion regions. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	9
318	Uneven compression levels of Earth's magnetic fields by shocked solar wind. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	9
319	Multipoint observations of substorm preâ€onset flows and time sequence in the ionosphere and magnetosphere. Journal of Geophysical Research, 2012, 117, .	3.3	9
320	Distribution of Region 1 and 2 currents in the quiet and substorm time plasma sheet from THEMIS observations. Geophysical Research Letters, 2016, 43, 7813-7821.	1.5	9
321	Evolution of partial ring current ion pitch angle distributions during the main phase of a storm on 17 March 2015. Journal of Geophysical Research: Space Physics, 2016, 121, 5284-5293.	0.8	9
322	The ion temperature gradient: An intrinsic property of Earth's magnetotail. Journal of Geophysical Research: Space Physics, 2017, 122, 8295-8309.	0.8	9
323	Fieldâ€Aligned Currents Originating From the Magnetic Reconnection Region: Conjugate MMSâ€ARTEMIS Observations. Geophysical Research Letters, 2018, 45, 5836-5844.	1.5	9
324	Ionospheric Outflow During the Substorm Growth Phase: THEMIS Observations of Oxygen Ions at the Plasma Sheet Boundary. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027612.	0.8	9

#	Article	IF	Citations
325	Observations of correlated broadband electrostatic noise and electron cyclotron emissions in the plasma sheet. Geophysical Research Letters, 1991, 18, 53-56.	1.5	8
326	Reply to comment by T. Kikuchi and T. Araki on â€œPropagation of the preliminary reverse impulse of sudden commencements to low latitudesâ€• Journal of Geophysical Research, 2002, 107, SMP 33-1-SMP 33-2.	3.3	8
327	Evolution of kinklike fluctuations associated with ion pickup within reconnection outflows in the Earthâ€™s magnetotail. Physics of Plasmas, 2009, 16, 120701.	0.7	8
328	AlfvÃ©nic plasma velocity variations observed at the inner edge of the lowâ€latitude boundary layer induced by the magnetosheath mirror mode waves: A THEMIS observation. Journal of Geophysical Research, 2009, 114, .	3.3	8
329	Tailward leap of multiple expansions of the plasma sheet during a moderately intense substorm: THEMIS observations. Journal of Geophysical Research, 2012, 117, .	3.3	8
330	Space experiments aboard the Lomonosov MSU satellite. Cosmic Research, 2013, 51, 427-433.	0.2	8
331	Electron Cooling and Isotropization during Magnetotail Current Sheet Thinning: Implications for Parallel Electric Fields. Journal of Geophysical Research: Space Physics, 2017, 122, 11,389.	0.8	8
332	Magnetotail Dipolarizations and Ion Flux Variations During the Main Phase of Magnetic Storms. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA028470.	0.8	8
333	Spaceâ€Ground Observations of Dynamics of Substorm Onset Beads. Journal of Geophysical Research: Space Physics, 2022, 127, .	0.8	8
334	Azimuthal auroral expansion associated with fast flows in the near-Earth plasma sheet: Coordinated observations of the THEMIS all-sky imagers and multiple spacecraft. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	7
335	Earthward electric field and its reversal in the nearâ€Earth current sheet. Journal of Geophysical Research: Space Physics, 2016, 121, 10,803.	0.8	7
336	Spatial Scales and Plasma Properties of the Distant Magnetopause: Evidence for Selective Ion and Electron Transport. Journal of Geophysical Research: Space Physics, 2019, 124, 5027-5041.	0.8	7
337	Ion distribution functions in magnetotail reconnection: global hybrid-Vlasov simulation results. Annales Geophysicae, 2021, 39, 599-612.	0.6	7
338	Ion motion in a polarized current sheet. Physics of Plasmas, 2017, 24, 012908.	0.7	6
339	Properties of the Equatorial Magnetotail Flanks â^¼50â€“200ÂR_E Downtail. Journal of Geophysical Research: Space Physics, 2017, 122, 11,917.	0.8	6
340	Comparison of the Flank Magnetopause at Nearâ€Earth and Lunar Distances: MMS and ARTEMIS Observations. Journal of Geophysical Research: Space Physics, 2020, 125, e2020JA028406.	0.8	6
341	Magnetic reconnection in a charged, electron-dominant current sheet. Physics of Plasmas, 2020, 27, .	0.7	6
342	Superfast ion scattering by solar wind discontinuities. Physical Review E, 2020, 102, 033201.	0.8	6

#	Article	IF	Citations
343	Electron Anisotropies in Magnetotail Dipolarization Events. Frontiers in Astronomy and Space Sciences, 0, 9, .	1.1	6
344	On a possible connection between the longitudinally propagating near-Earth plasma sheet and auroral arc waves: A reexamination. Journal of Geophysical Research: Space Physics, 2015, 120, 432-444.	0.8	5
345	Understanding the ion distributions near the boundaries of reconnection outflow region. Journal of Geophysical Research: Space Physics, 2016, 121, 9400-9410.	0.8	5
346	Offâ€equatorial currentâ€driven instabilities ahead of approaching dipolarization fronts. Journal of Geophysical Research: Space Physics, 2017, 122, 5247-5260.	0.8	5
347	Characteristics of highâ€latitude precursor flows ahead of dipolarization fronts. Journal of Geophysical Research: Space Physics, 2017, 122, 5307-5320.	0.8	5
348	A Case Study of Near-Earth Magnetotail Conditions at Substorm and Pseudosubstorm Onsets. Geophysical Research Letters, 2018, 45, 6353-6361.	1.5	5
349	Electrodynamic Contributions to the Hallâ€and Parallel Electric Fields in Collisionless Magnetic Reconnection. Journal of Geophysical Research: Space Physics, 2021, 126, e2021JA029550.	0.8	5
350	Comparative Study of Electric Currents and Energetic Particle Fluxes in a Solar Flare and Earth Magnetospheric Substorm. Astrophysical Journal, 2021, 923, 151.	1.6	5
351	THEMIS observations of consecutive bursts of Pi2 pulsations: The 20 April 2007 event. Journal of Geophysical Research, 2009, 114, .	3.3	4
352	Substormâ€like magnetospheric response to a discontinuity in the B_x component of interplanetary magnetic field. Journal of Geophysical Research, 2012, 117, .	3.3	4
353	Magnetotail Configuration During a Steady Convection Event as Observed by Lowâ€Altitude and Magnetospheric Spacecraft. Journal of Geophysical Research: Space Physics, 2018, 123, 8390-8406.	0.8	4
354	Particle Beams in the Vicinity of Magnetic Separatrix According to Nearâ€Lunar ARTEMIS Observations. Journal of Geophysical Research: Space Physics, 2019, 124, 1883-1903.	0.8	4
355	Configuration of Magnetotail Current Sheet Prior to Magnetic Reconnection Onset. Geophysical Research Letters, 2022, 49, .	1.5	4
356	On the Origin of Perpendicular Ion Anisotropy Inside Dipolarizing Flux Bundles. Journal of Geophysical Research: Space Physics, 2019, 124, 4009-4021.	0.8	3
357	A THEMIS multicase study of dipolarization fronts in the magnetotail plasma sheet. , 2011, .		1
358	Evolution of Thermal Electron Distributions in the Magnetotail: Convective Heating and Scatteringâ€Induced Losses. Journal of Geophysical Research: Space Physics, 2021, 126, .	0.8	1
359	Properties of Stormâ€Time Magnetic Flux Transport. Journal of Geophysical Research: Space Physics, 2022, 127, .	0.8	1
360	Energetic Ions Downtail of the Reconnection Site. Journal of Geophysical Research: Space Physics, 2022, 127, .	0.8	0

#	Article	IF	Citations
361	Is the Solar Wind Electron Strahl a Seed Population for the Earthâ€™s Electron Radiation Belt?. Frontiers in Astronomy and Space Sciences, 2022, 9, .	1.1	0