Shin Ohtani

List of Publications by Year
in descending order

215 papers	6,414 citations	50170 46 h-index	102304 66 g-index
220 all docs	220 docs citations	220 times ranked	2099 citing authors

#	Article	IF	Citations
1	Effect of Meteoric Ions on Ionospheric Conductance at Jupiter. Journal of Geophysical Research: Space Physics, 2022, 127, .	0.8	6
2	Nighttime Magnetic Perturbation Events Observed in Arctic Canada: 3. Occurrence and Amplitude as Functions of Magnetic Latitude, Local Time, and Magnetic Disturbance Indices. Space Weather, 2021, 19, e2020SW002526.	1.3	15
3	Globally Correlated Ground Magnetic Disturbances During Substorms. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA028599.	0.8	11
4	Simultaneous Development of Multiple Auroral Substorms: Double Auroral Bulge Formation. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA028883.	0.8	1
5	Superposed Epoch Analysis of Dispersionless Particle Injections Inside Geosynchronous Orbit. Journal of Geophysical Research: Space Physics, 2021, 126, e2021JA029546.	0.8	9
6	Superposed Epoch Analysis of Nighttime Magnetic Perturbation Events Observed in Arctic Canada. Journal of Geophysical Research: Space Physics, 2021, 126, e2021JA029465.	0.8	7
7	Revisiting the Partial Ring Current Model: Longitudinal Asymmetry of Ground Magnetic Depression During Geomagnetic Storms. Journal of Geophysical Research: Space Physics, 2021, 126, e2021JA029643.	0.8	5
8	SECS Analysis of Nighttime Magnetic Perturbation Events Observed in Arctic Canada. Journal of Geophysical Research: Space Physics, 2021, 126, e2021JA029839.	0.8	12
9	Formation of a 3â€D Oscillatory Current System Associated With Global Highâ€Correlation Pi 2 Event: A Case Study. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA026988.	0.8	4
10	Ballooningâ€Interchange Instability in the Nearâ€Earth Plasma Sheet and Auroral Beads: Global Magnetospheric Modeling at the Limit of the MHD Approximation. Geophysical Research Letters, 2020, 47, e2020GL088227.	1.5	59
11	Is the Substorm Current Wedge an Ensemble of Wedgelets?: Revisit to Midlatitude Positive Bays. Journal of Geophysical Research: Space Physics, 2020, 125, e2020JA027902.	0.8	34
12	Dynamic Properties of Particle Injections Inside Geosynchronous Orbit: A Multisatellite Case Study. Journal of Geophysical Research: Space Physics, 2020, 125, e2020JA028215.	0.8	4
13	Generalized Substorm Current Wedge Model: Two Types of Dipolarizations in the Inner Magnetosphere. Journal of Geophysical Research: Space Physics, 2020, 125, e2020JA027890.	0.8	5
14	Pitch Angle Dependence of Electron and Ion Flux Changes During Local Magnetic Dipolarization Inside Geosynchronous Orbit. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027543.	0.8	8
15	Solar Illumination Dependence of the Auroral Electrojet Intensity: Interplay Between the Solar Zenith Angle and Dipole Tilt. Journal of Geophysical Research: Space Physics, 2019, 124, 6636-6653.	0.8	7
16	Nighttime Magnetic Perturbation Events Observed in Arctic Canada: 2. Multipleâ€Instrument Observations. Journal of Geophysical Research: Space Physics, 2019, 124, 7459-7476.	0.8	35
17	Signatures of Nonideal Plasma Evolution During Substorms Obtained by Mining Multimission Magnetometer Data. Journal of Geophysical Research: Space Physics, 2019, 124, 8427-8456.	0.8	27
18	Substorm Energy Transport From the Magnetotail to the Nightside Ionosphere. Journal of Geophysical Research: Space Physics, 2019, 124, 8669-8684.	0.8	8

#	Article	IF	Citations
19	Global Empirical Picture of Magnetospheric Substorms Inferred From Multimission Magnetometer Data. Journal of Geophysical Research: Space Physics, 2019, 124, 1085-1110.	0.8	41
20	Lowâ€Energy (<keV) O⁺ Ion Outflow Directly Into the Inner Magnetosphere: Van Allen Probes Observations. Journal of Geophysical Research: Space Physics, 2019, 124, 405-419.	0.8	32
21	Nightside Magnetosphereâ€Ionosphere Current Circuit: Implications for Auroral Streamers and Pi2 Pulsations. Journal of Geophysical Research: Space Physics, 2018, 123, 350-363.	0.8	5
22	Longitudinal Development of Poleward Boundary Intensifications (PBIs) of Auroral Emission. Journal of Geophysical Research: Space Physics, 2018, 123, 9005-9021.	0.8	5
23	Dawnside Wedge Current System Formed During Intense Geomagnetic Storms. Journal of Geophysical Research: Space Physics, 2018, 123, 9093-9109.	0.8	14
24	Spatial Development of the Dipolarization Region in the Inner Magnetosphere. Journal of Geophysical Research: Space Physics, 2018, 123, 5452-5463.	0.8	19
25	Response of Different Ion Species to Local Magnetic Dipolarization Inside Geosynchronous Orbit. Journal of Geophysical Research: Space Physics, 2018, 123, 5420-5434.	0.8	13
26	Dominance of highâ€energy (>150ÂkeV) heavy ion intensities in Earth's middle to outer magnetosphere. Journal of Geophysical Research: Space Physics, 2017, 122, 9282-9293.	0.8	18
27	Equatorial magnetic field of the nearâ€Earth magnetotail. Journal of Geophysical Research: Space Physics, 2017, 122, 8462-8478.	0.8	12
28	Application of a global magnetosphericâ€ionospheric current model for dayside and terminator Pi2 pulsations. Journal of Geophysical Research: Space Physics, 2017, 122, 8589-8603.	0.8	7
29	Solar terminator effects on middle- to low-latitude Pi2 pulsations. Earth, Planets and Space, 2016, 68, .	0.9	6
30	Initial deflection of middleâ€latitude Pi2 pulsations in the premidnight sector: Remote detection of oscillatory upward fieldâ€aligned current at substorm onset. Journal of Geophysical Research: Space Physics, 2016, 121, 6324-6340.	0.8	3
31	The Harang reversal and the interchange stability of the magnetotail. Journal of Geophysical Research: Space Physics, 2016, 121, 3278-3292.	0.8	9
32	The initiation of the poleward boundary intensification of auroral emission by fast polar cap flows: A new interpretation based on ionospheric polarization. Journal of Geophysical Research: Space Physics, 2016, 121, 10,910.	0.8	9
33	Void structure of O⁺ ions in the inner magnetosphere observed by the Van Allen Probes. Journal of Geophysical Research: Space Physics, 2016, 121, 11,698.	0.8	4
34	The impact of sunlight on highâ€latitude equivalent currents. Journal of Geophysical Research: Space Physics, 2016, 121, 2715-2726.	0.8	37
35	On the formation and origin of substorm growth phase/onset auroral arcs inferred from conjugate spaceâ€ground observations. Journal of Geophysical Research: Space Physics, 2015, 120, 8707-8722.	0.8	21
36	Highâ€resolution global magnetohydrodynamic simulation of bursty bulk flows. Journal of Geophysical Research: Space Physics, 2015, 120, 4555-4566.	0.8	90

#	Article	IF	Citations
37	Birkeland current effects on highâ€latitude ground magnetic field perturbations. Geophysical Research Letters, 2015, 42, 7248-7254.	1.5	29
38	On the fieldâ€aligned electric field in the polar cap. Geophysical Research Letters, 2015, 42, 5090-5099.	1.5	13
39	Defining and resolving current systems in geospace. Annales Geophysicae, 2015, 33, 1369-1402.	0.6	66
40	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
41	Responses of different ion species to fast plasma flows and local dipolarization in the plasma sheet. Journal of Geophysical Research: Space Physics, 2015, 120, 187-200.	0.8	10
42	Spatial structure and temporal evolution of energetic particle injections in the inner magnetosphere during the 14 July 2013 substorm event. Journal of Geophysical Research: Space Physics, 2015, 120, 1924-1938.	0.8	49
43	Pi2 pulsations observed around the dawn terminator. Journal of Geophysical Research: Space Physics, 2015, 120, 2088-2098.	0.8	10
44	Magnetic reconnection, buoyancy, and flapping motions in magnetotail explosions. Journal of Geophysical Research: Space Physics, 2014, 119, 7151-7168.	0.8	64
45	Interrelationship between preonset auroral and magnetic signatures at a geomagnetically conjugate Icelandâ€Syowa pair. Journal of Geophysical Research: Space Physics, 2014, 119, 761-769.	0.8	4
46	Fieldâ€aligned currents during the extreme solar minimum between the solar cycles 23 and 24. Journal of Geophysical Research: Space Physics, 2014, 119, 2466-2475.	0.8	1
47	Nightside magnetospheric current circuit: Time constants of the solar wind-magnetosphere coupling. Journal of Geophysical Research: Space Physics, 2014, 119, 3558-3572.	0.8	7
48	Solar cycle variation of plasma mass density in the outer magnetosphere: Magnetoseismic analysis of toroidal standing AlfvÃ©n waves detected by Geotail. Journal of Geophysical Research: Space Physics, 2014, 119, 8338-8356.	0.8	24
49	Solar cycle dependence of nightside fieldâ€aligned currents: Effects of dayside ionospheric conductivity on the solar windâ€magnetosphereâ€ionosphere coupling. Journal of Geophysical Research: Space Physics, 2014, 119, 322-334.	0.8	22
50	Temporal and spatial dynamics of the regions 1 and 2 Birkeland currents during substorms. Journal of Geophysical Research: Space Physics, 2013, 118, 3007-3016.	0.8	52
51	The response of the dayside equatorial electrojet to stepâ€like changes of IMF B_Z. Journal of Geophysical Research: Space Physics, 2013, 118, 3637-3646.	0.8	5
52	Storm time duskside equatorial current and its closure path. Journal of Geophysical Research: Space Physics, 2013, 118, 5616-5625.	0.8	8
53	The role of compressional Pc5 pulsations in modulating precipitation of energetic electrons. Journal of Geophysical Research: Space Physics, 2013, 118, 7728-7739.	0.8	21
54	Study of an Isolated Substorm with ISTP Data. Geophysical Monograph Series, 2013, , 261-274.	0.1	1

#	Article	IF	Citations
55	Statistical characteristics of plasma flows associated with magnetic dipolarizations in the nearâ€tail region of r < 12 R_E. Journal of Geophysical Research, 2012, 117, .	3.3	40
56	On nearâ€tail bubble penetration into geosynchronous altitude. Journal of Geophysical Research, 2012, 117, .	3.3	13
57	Observational test of interchange instability associated with magnetic dipolarization in the nearâ€Earth plasma sheet ofr < 12 R_E. Journal of Geophysical Research, 2012, 117, .	3.3	6
58	The double auroral oval in the duskâ€midnight sector: Formation, mapping and dynamics. Journal of Geophysical Research, 2012, 117, .	3.3	6
59	Magnetic field depression at the Earth's surface during energetic neutral atom emission fade-out in the inner magnetosphere. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	1
60	AKR modulation and global Pi2 oscillation. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	9
61	Displacement of conjugate points during a substorm in a global magnetohydrodynamic simulation. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	9
62	Self-consistent formulation for the evolution of ionospheric conductances at the ionosphericEregion within the M-I coupling scheme. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	10
63	Energetic O+and H+ions in the plasma sheet: Implications for the transport of ionospheric ions. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	37
64	Solar wind driving of dayside field-aligned currents. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	16
65	Pi 2 waves simultaneously observed by Cluster and CPMN ground-based magnetometers near the plasmapause. Annales Geophysicae, 2011, 29, 1663-1672.	0.6	3
66	Characteristics of the terrestrial field-aligned current system. Annales Geophysicae, 2011, 29, 1713-1729.	0.6	54
67	Response of the auroral electrojet indices to abrupt southward IMF turnings. Annales Geophysicae, 2010, 28, 1167-1182.	0.6	18
68	Substorm and pseudo-substorm Pi2 pulsations observed during the interval of quasi-periodic magnetotail flow bursts: A case study. Earth, Planets and Space, 2010, 62, 413-425.	0.9	7
69	Can intense substorms occur under northward IMF conditions?. Journal of Geophysical Research, 2010, 115, .	3.3	29
70	Some statistical properties of flow bursts in the magnetotail. Journal of Geophysical Research, 2010, 115, .	3.3	17
71	Substorm cycle dependence of various types of aurora. Journal of Geophysical Research, 2010, 115, .	3.3	53
72	Multisatellite lowâ€altitude observations of a magnetopause merging burst. Journal of Geophysical Research, 2010, 115, .	3.3	4

#	Article	IF	Citations
73	Locations of nightâ€side precipitation boundaries relative to R2 and R1 currents. Journal of Geophysical Research, 2010, 115, .	3.3	36
74	Statistical characteristics and significance of lowâ€frequency instability associated with magnetic dipolarizations in the nearâ€Earth plasma sheet. Journal of Geophysical Research, 2010, 115, .	3.3	18
75	Inductive electric fields in the inner magnetosphere during geomagnetically active periods. Journal of Geophysical Research, 2010, 115, .	3.3	16
76	Dayside fieldâ€aligned current source regions. Journal of Geophysical Research, 2010, 115, .	3.3	65
77	Massâ€dependent evolution of energetic neutral atoms energy spectra during storm time substorms: Implication for O⁺ nonadiabatic acceleration. Journal of Geophysical Research, 2010, 115, .	3.3	24
78	On the poleward boundary of the nightside auroral oval under northward interplanetary magnetic field conditions. Journal of Geophysical Research, 2010, 115, .	3.3	13
79	Simultaneous observations of the plasma density on the same field line by the CPMN ground magnetometers and the Cluster satellites. Advances in Space Research, 2009, 43, 265-272.	1.2	11
80	Dependence of premidnight fieldâ€aligned currents and particle precipitation on solar illumination. Journal of Geophysical Research, 2009, 114, .	3.3	37
81	Propagation characteristics of Pi 2 pulsations observed at highâ€and lowâ€latitude MAGDAS/CPMN stations: A statistical study. Journal of Geophysical Research, 2009, 114, .	3.3	16
82	Substorm onset timing via traveltime magnetoseismology. Geophysical Research Letters, 2009, 36, .	1.5	21
83	On the loss of relativistic electrons at geosynchronous altitude: Its dependence on magnetic configurations and external conditions. Journal of Geophysical Research, 2009, 114, .	3.3	63
84	Geomagnetic signatures of auroral substorms preceded by pseudobreakups. Journal of Geophysical Research, 2009, 114, .	3.3	9
85	Impact of the solar wind dynamic pressure on the Region 2 fieldâ€aligned currents. Journal of Geophysical Research, 2009, 114, .	3.3	13
86	Tailward flows with positive B_Z in the nearâ€Earth plasma sheet. Journal of Geophysical Research, 2009, 114, .	3.3	57
87	A method for estimating the ring current structure and the electric potential distribution using energetic neutral atom data assimilation. Journal of Geophysical Research, 2008, 113, .	3.3	17
88	Two classes of earthward fast flows in the plasma sheet. Journal of Geophysical Research, 2008, 113, .	3.3	18
89	Ion composition in the plasma trough and plasma plume derived from a Combined Release and Radiation Effects Satellite magnetoseismic study. Journal of Geophysical Research, 2008, 113, .	3.3	40
90	Statistical characteristics of the storm time plasma sheet. Journal of Geophysical Research, 2008, 113, .	3.3	12

#	Article	IF	Citations
91	Solar wind control of plasma number density in the near-Earth plasma sheet: three-dimensional structure. Annales Geophysicae, 2008, 26, 4031-4049.	0.6	21
92	Storm-time magnetic configurations at geosynchronous orbit: Comparison between the main and recovery phases. Journal of Geophysical Research, 2007, 112, n/a-n/a.	3.3	24
93	Particle precipitation characteristics in the dayside four-sheet field-aligned current structure. Journal of Geophysical Research, 2007, 112, n/a-n/a.	3.3	6
94	Solar wind control of plasma number density in the nearâ€Earth plasma sheet. Journal of Geophysical Research, 2007, 112, .	3.3	16
95	Cluster observations in the inner magnetosphere during the 18 April 2002 sawtooth event: Dipolarization and injection at r = 4.6 R_E. Journal of Geophysical Research, 2007, 112, .	3.3	40
96	Energetic neutral atom response to solar wind dynamic pressure enhancements. Journal of Geophysical Research, 2007, 112, .	3.3	17
97	Statistical analysis of the relationship between earthward flow bursts in the magnetotail and lowâ€latitude Pi2 pulsations. Journal of Geophysical Research, 2007, 112, .	3.3	20
98	Effects of the fast plasma sheet flow on the geosynchronous magnetic configuration: Geotail and GOES coordinated study. Journal of Geophysical Research, 2006, 111, .	3.3	79
99	Statistical characteristics of hydrogen and oxygen ENA emission from the storm-time ring current. Journal of Geophysical Research, 2006, 111, .	3.3	21
100	Plasma sheet expansion: Statistical characteristics. Journal of Geophysical Research, 2006, 111, .	3.3	6
101	Convection electric field in the near-Earth tail during the super magnetic storm of November 20â€“21, 2003. Geophysical Research Letters, 2006, 33, .	1.5	5
102	Contribution of charge exchange loss to the storm time ring current decay: IMAGE/HENA observations. Journal of Geophysical Research, 2006, 111, .	3.3	30
103	Simultaneous identification of a plasmaspheric plume by a ground magnetometer pair and IMAGE Extreme Ultraviolet Imager. Journal of Geophysical Research, 2006, 111, .	3.3	17
104	Remote sensing of a near-Earth neutral line during the 5 October 2000 substorm. Annales Geophysicae, 2006, 24, 3497-3505.	0.6	4
105	Storm-time convection electric field in the near-Earth plasma sheet. Journal of Geophysical Research, 2005, 110, .	3.3	29
106	Annual and semiannual variations of the location and intensity of large-scale field-aligned currents. Journal of Geophysical Research, 2005, 110, .	3.3	60
107	Local time distribution of low and middle latitude ground magnetic disturbances at sawtooth injections of 18â€“19 April 2002. Journal of Geophysical Research, 2005, 110, .	3.3	27
108	Storm-substorm relationship: Variations of the hydrogen and oxygen energetic neutral atom intensities during storm-time substorms. Journal of Geophysical Research, 2005, 110, .	3.3	46

#	Article	IF	Citations
109	Outflow of energetic ions from the magnetosphere and its contribution to the decay of the storm time ring current. Journal of Geophysical Research, 2005, 110, .	3.3	30
110	Comparison of large-scale field-aligned currents under sunlit and dark ionospheric conditions. Journal of Geophysical Research, 2005, 110, .	3.3	40
111	Storm time dawn-dusk asymmetry of the large-scale Birkeland currents. Journal of Geophysical Research, 2005, 110, .	3.3	39
112	Ionospheric conductivity dependence of dayside region-0, 1, and 2 field-aligned current systems: statistical study with DMSP-F7. Annales Geophysicae, 2004, 22, 2775-2783.	0.6	24
113	IMAGE/HENA: pressure and current distributions during the 1 October 2002 storm. Advances in Space Research, 2004, 33, 719-722.	1.2	32
114	Flow Bursts in the Plasma Sheet and Auroral Substorm Onset: Observational Constraints on Connection Between Midtail and Near-earth Substorm Processes. Space Science Reviews, 2004, 113, 77-96.	3.7	53
115	Tail current surge: New insights from a global MHD simulation and comparison with satellite observations. Journal of Geophysical Research, 2004, 109, .	3.3	12
116	Propagation characteristics of Pi 2 magnetic pulsations observed at ground high latitudes. Journal of Geophysical Research, 2004, 109, .	3.3	24
117	Total pressure variations in the magnetotail as a function of the position and the substorm magnitude. Journal of Geophysical Research, 2004, 109, .	3.3	15
118	Tail dynamics during the growth phase of the 24 November 1996, substorm event: Near-Earth reconnection confined in the plasma sheet. Journal of Geophysical Research, 2004, 109, .	3.3	3
119	Data-derived forecasting model for relativistic electron intensity at geosynchronous orbit. Geophysical Research Letters, 2004, 31, n/a-n/a.	1.5	44
120	Magnetotail behavior during storm time â€œsawtooth injectionsâ€• Journal of Geophysical Research, 2004, 109, .	3.3	31
121	Auroral streamers: characteristics of associated precipitation,convection and field-aligned currents. Annales Geophysicae, 2004, 22, 537-548.	0.6	89
122	Temporal structure of the fast convective flow in the plasma sheet: Comparison between observations and two-fluid simulations. Journal of Geophysical Research, 2004, 109, .	3.3	241
123	A substorm-associated drift echo of energetic protons observed by Geotail: Radial density gradient structure. Geophysical Research Letters, 2003, 30, .	1.5	8
124	Simultaneous EISCAT Svalbard radar and DMSP observations of ion upflow in the dayside polar ionosphere. Journal of Geophysical Research, 2003, 108, .	3.3	59
125	Hall current system around the magnetic neutral line in the magnetotail: Statistical study. Journal of Geophysical Research, 2003, 108, .	3.3	9
126	Quiet time magnetotail plasma flow: Coordinated Polar ultraviolet images and Geotail observations. Journal of Geophysical Research, 2003, 108, .	3.3	9

#	Article	IF	Citations
127	Quantitative relationships between plasma sheet fast flows and nightside auroral power. Journal of Geophysical Research, 2003, 108, .	3.3	9
128	Storm-substorm relationships during the 4 October, 2000 storm. IMAGE Global ENA imaging results. Geophysical Monograph Series, 2003, , 103-118.	0.1	12
129	Electron dynamics in the current disruption region. Journal of Geophysical Research, 2002, 107, SMP 22-1.	3.3	4
130	ENA observations of a global substorm growthphase dropout in the nightside magnetosphere. Geophysical Research Letters, 2002, 29, 23-1-23-3.	1.5	13
131	Global ENA observations of the storm mainphase ring current: Implications for skewed electric fields in the inner magnetosphere. Geophysical Research Letters, 2002, 29, 15-1-15-3.	1.5	92
132	IMAGE/high-energy energetic neutral atom: Global energetic neutral atom imaging of the plasma sheet and ring current during substorms. Journal of Geophysical Research, 2002, 107, SMP 21-1-SMP 21-13.	3.3	48
133	Field-aligned currents in the outermost plasma sheet boundary layer with Geotail observation. Journal of Geophysical Research, 2002, 107, SMP 32-1.	3.3	30
134	The timing relationship between bursty bulk flows and Pi2s at the geosynchronous orbit. Geophysical Research Letters, 2002, 29, 15-1-15-4.	1.5	17
135	Does the braking of the fast plasma flow trigger a substorm?: A study of the August 14, 1996, event. Geophysical Research Letters, 2002, 29, 16-1-16-4.	1.5	37
136	Quiet time magnetotail dynamics and their implications for the substorm trigger. Journal of Geophysical Research, 2002, 107, SMP 6-1-SMP 6-10.	3.3	30
137	Pi2 onset time determination with information criterion. Journal of Geophysical Research, 2002, 107, SMP 14-1.	3.3	3
138	Particle simulation study of substrom triggering with a southward IMF. Advances in Space Research, 2002, 30, 2675-2681.	1.2	3
139	Broadband transverse waves below 1 Hz in the afternoon sector of the magnetosphere. Journal of Geophysical Research, 2001, 106, 18873-18882.	3.3	0
140	Reply [to â€œComment on â€œEvaluation of low-latitude Pi2 pulsations as indicators of substorm onset using Polar ultraviolet imageryâ€•by K. Liou, et al.â€]. Journal of Geophysical Research, 2001, 106, 18923-18926.	3.3	5
141	Ion composition of the near-Earth plasma sheet in storm and quiet intervals: Geotail/EPIC measurements. Journal of Geophysical Research, 2001, 106, 8391-8403.	3.3	45
142	Storm-substorm relationship: Contribution of the tail current toDst. Journal of Geophysical Research, 2001, 106, 21199-21209.	3.3	100
143	CRRES observation of Pi2 pulsations: Wave mode inside and outside the plasmasphere. Journal of Geophysical Research, 2001, 106, 15567-15581.	3.3	48
144	Acceleration signatures in the dayside boundary layer and the cusp. Physics and Chemistry of the Earth, Part C: Solar, Terrestrial and Planetary Science, 2001, 26, 195-200.	0.2	3

#	Article	IF	Citations
145	Substorm Trigger Processes in the Magnetotail: Recent Observations and Outstanding Issues. Space Science Reviews, 2001, 95, 347-359.	3.7	23
146	Magnetosphere-ionosphere interactions: A tutorial review. Geophysical Monograph Series, 2000, , 91-106.	0.1	156
147	Field-aligned-current systems in the numerically simulated magnetosphere. Geophysical Monograph Series, 2000, , 53-59.	0.1	31
148	Global particle simulation for a space weather model: present and future. IEEE Transactions on Plasma Science, 2000, 28, 1991-2006.	0.6	4
149	Ionospheric electrodynamics: A tutorial. Geophysical Monograph Series, 2000, , 131-146.	0.1	49
150	A Synthetic view of the magnetospheric-ionospheric current system associated with substorms. Geophysical Monograph Series, 2000, , 199-207.	0.1	13
151	Near- and mid-tail current flow during substorms: Small- and large-scale aspects of current disruption. Geophysical Monograph Series, 2000, , 295-303.	0.1	20
152	The current disruption myth. Geophysical Monograph Series, 2000, , 285-294.	0.1	5
153	A new technique for the mapping of ionospheric field-aligned currents from satellite magnetometer data. Geophysical Monograph Series, 2000, , 381-388.	0.1	13
154	Substorm associated tail current changes inferred from lobe magnetic field observations. Geophysical Monograph Series, 2000, , 275-283.	0.1	3
155	Electric current approach to magnetospheric physics and the distinction between current disruption and magnetic reconnection. Geophysical Monograph Series, 2000, , 31-40.	0.1	17
156	Global geometry of magnetospheric currents inferred from MHD simulations. Geophysical Monograph Series, 2000, , 41-52.	0.1	60
157	Symmetry breaking and nonlinear wave-wave interaction in current disruption: Possible evidence for a phase transition. Geophysical Monograph Series, 2000, , 395-401.	0.1	22
158	Ion dynamics and tail current intensification prior to dipolarization: The June 1, 1985, event. Journal of Geophysical Research, 2000, 105, 25233-25246.	3.3	15
159	Change of energetic ion composition in the plasma sheet during substorms. Journal of Geophysical Research, 2000, 105, 23277-23286.	3.3	36
160	Automatic identification of large-scale field-aligned current structures. Journal of Geophysical Research, 2000, 105, 25305-25315.	3.3	30
161	Four-sheet structures of dayside field-aligned currents: Statistical study. Journal of Geophysical Research, 2000, 105, 25317-25324.	3.3	12
162	FAST observations of upward accelerated electron beams and the downward field-aligned current region. Geophysical Monograph Series, 2000, , 173-180.	0.1	21

#	Article	IF	Citations
163	Field-aligned currents in geospace: Substance and significance. Geophysical Monograph Series, 2000, , 107-129.	0.1	48
164	The Effect of the January 10, 1997, pressure pulse on the magnetosphere-ionosphere current system. Geophysical Monograph Series, 2000, , 217-226.	0.1	66
165	Conjunction of tail satellites for substorm study: ISTP event of 1997 January 2. Geophysical Research Letters, 2000, 27, 1831-1834.	1.5	4
166	Evolution of thin current sheet with a southward interplanetary magnetic field studied by a three-dimensional electromagnetic particle code. Journal of Geophysical Research, 2000, 105, 13017-13028.	3.3	10
167	Acceleration of oxygen ions of ionospheric origin in the near-Earth magnetotail during substorms. Journal of Geophysical Research, 2000, 105, 7669-7677.	3.3	71
168	Evaluation of low-latitude Pi2 pulsations as indicators of substorm onset using Polar ultraviolet imagery. Journal of Geophysical Research, 2000, 105, 2495-2505.	3.3	87
169	Dawn-dusk profile of field-aligned currents on May 11, 1999: A Familiar pattern driven by an unusual cause. Geophysical Research Letters, 2000, 27, 3777-3780.	1.5	7
170	Scientists confer on magnetospheric current systems from a global viewpoint. Eos, 1999, 80, 378.	0.1	1
171	Coordinated ISTP satellite and ground observations of morningsidePc5 waves. Journal of Geophysical Research, 1999, 104, 2381-2397.	3.3	12
172	Near-Earth dipolarization: Evidence for a non-MHD process. Geophysical Research Letters, 1999, 26, 2905-2908.	1.5	52
173	Cold dense plasma in the outer magnetosphere. Journal of Geophysical Research, 1999, 104, 25077-25095.	3.3	35
174	Substorm onset timing: The December 31, 1995, event. Journal of Geophysical Research, 1999, 104, 22713-22727.	3.3	67
175	Field-aligned current systems in the magnetospheric ground state. Journal of Geophysical Research, 1998, 103, 6853-6869.	3.3	20
176	Plasma and magnetic flux transport associated with auroral breakups. Geophysical Research Letters, 1998, 25, 4059-4062.	1.5	57
177	Multipoint study of a substorm on February 9, 1995. Journal of Geophysical Research, 1998, 103, 17333-17343.	3.3	9
178	AMPTE/CCE-SCATHA simultaneous observations of substorm-associated magnetic fluctuations. Journal of Geophysical Research, 1998, 103, 4671-4682.	3.3	89
179	Earthward expansion of tail current disruption: Dual-satellite study. Journal of Geophysical Research, 1998, 103, 6815-6825.	3.3	59
180	Investigation of a substorm following an extended interval of northward interplanetary magnetic field. COSPAR Colloquia Series, 1998, 9, 9-16.	0.2	0

#	Article	IF	Citations
181	Particle Entry Through Reconnection by a Time-Varying IMF as Simulated by a 3-D Em Particle Code. Astrophysics and Space Science Library, 1998, , 535-538.	1.0	2
182	Relationship between Large-, Meso-, and Small-Scale Field-Aligned Currents and their Current Carriers. , 1998, , 173-188.		16
183	Drift-shell splitting of energetic ions injected at pseudo-substorm onsets. Journal of Geophysical Research, 1997, 102, 22117-22130.	3.3	26
184	Response of the dayside auroral and electrodynamic processes to variations in the interplanetary magnetic field. Journal of Geophysical Research, 1997, 102, 22247-22260.	3.3	7
185	Altitudinal comparison of dayside field-aligned current signatures by Viking and DMSP-F7: Intermediate-scale field-aligned current systems. Journal of Geophysical Research, 1996, 101, 15297-15310.	3.3	14
186	Dynamic response of the cusp morphology to the solar wind: A case study during passage of the solar wind plasma cloud on February 21, 1994. Journal of Geophysical Research, 1996, 101, 24675-24687.	3.3	26
187	Multisatellite study of nightside transient toroidal waves. Journal of Geophysical Research, 1996, 101, 24815-24825.	3.3	40
188	Four large-scale field-aligned current systems in the dayside high-latitude region. Journal of Geophysical Research, 1995, 100, 137.	3.3	46
189	Simultaneous prenoon and postnoon observations of three field-aligned current systems from Viking and DMSP-F7. Journal of Geophysical Research, 1995, 100, 119.	3.3	63
190	Observations in the vicinity of substorm onset: Implications for the substorm process. Journal of Geophysical Research, 1995, 100, 7937.	3.3	116
191	The double oval UV auroral distribution: 1. Implications for the mapping of auroral arcs. Journal of Geophysical Research, 1995, 100, 12075.	3.3	77
192	The double oval UV auroral distribution: 2. The most poleward arc system and the dynamics of the magnetotail. Journal of Geophysical Research, 1995, 100, 12093.	3.3	61
193	Magnetic fluctuations associated with tail current disruption: Fractal analysis. Journal of Geophysical Research, 1995, 100, 19135.	3.3	81
194	Special features of a substorm during high solar wind dynamic pressure. Journal of Geophysical Research, 1995, 100, 19095.	3.3	10
195	Statistical analysis of Pi 2 pulsations observed by the AMPTE CCE Spacecraft in the inner magnetosphere. Journal of Geophysical Research, 1995, 100, 21929-21941.	3.3	128
196	Periodic longitudinal structure of field-aligned currents in the dawn sector: Large-scale meandering of an auroral electrojet. Geophysical Research Letters, 1994, 21, 1879-1882.	1.5	6
197	Freja's contribution to the ISTP event of October 27, 1992. A distorted magnetosphere. Geophysical Research Letters, 1994, 21, 1871-1874.	1.5	1
198	On the tailward expansion of current disruption during substorms. Advances in Space Research, 1993, 13, 265-268.	1.2	1

#	Article	IF	Citations
199	Does the ballooning instability trigger substorms in the nearâ€Earth magnetotail?. Journal of Geophysical Research, 1993, 98, 19369-19379.	3.3	81
200	A multisatellite study of a pseudoâ€substorm onset in the nearâ€Earth magnetotail. Journal of Geophysical Research, 1993, 98, 19355-19367.	3.3	78
201	AMPTE CCE observations of Pi 2 pulsations in the inner magnetosphere. Geophysical Research Letters, 1992, 19, 1447-1450.	1.5	52
202	ISEEâ€1 and â€2 observations of an isolated diamagnetic event: An earthwardâ€moving plasma bulge or a tailâ€aligned flux rope?. Geophysical Research Letters, 1992, 19, 1743-1746.	1.5	5
203	Initial signatures of magnetic field and energetic particle fluxes at tail Reconfiguration: Explosive growth phase. Journal of Geophysical Research, 1992, 97, 19311-19324.	3.3	132
204	Radial expansion of the tail current disruption during substorms: A new approach to the substorm onset region. Journal of Geophysical Research, 1992, 97, 3129-3136.	3.3	185
205	Magnetic properties of the highâ€latitude tail boundary: Draping of magnetosheath field lines and tailâ€aligned current. Journal of Geophysical Research, 1991, 96, 9521-9530.	3.3	7
206	Fieldâ€aligned current signatures in the nearâ€tail region: 2. Coupling between the region 1 and the region 2 systems. Journal of Geophysical Research, 1990, 95, 18913-18927.	3.3	25
207	IMP 8 magnetic observations of the highâ€latitude tail boundary: Locations and force balance. Journal of Geophysical Research, 1990, 95, 20759-20769.	3.3	15
208	Coupling between alfvÃ©n and slow magnetosonic waves in an inhomogeneous finite-Î² plasmaâ€”II. Eigenmode analysis of localized ballooning-interchange instability. Planetary and Space Science, 1989, 37, 579-588.	0.9	24
209	Coupling between alfvÃ©n and slow magnetosonic waves in an inhomogeneous finite-Î² plasmaâ€”I. Coupled equations and physical mechanism. Planetary and Space Science, 1989, 37, 567-577.	0.9	44
210	Ballooning instability and structure of diamagnetic hydromagnetic waves in a model magnetosphere. Journal of Geophysical Research, 1989, 94, 15231-15242.	3.3	86
211	Fieldâ€aligned current signatures in the nearâ€tail region: 1. ISEE observations in the plasma sheet boundary layer. Journal of Geophysical Research, 1988, 93, 9709-9720.	3.3	82
212	Harmonic structure of compressional Pc5 pulsations at synchronous orbit. Geophysical Research Letters, 1986, 13, 1101-1104.	1.5	40
213	Dynamics of Ions of Ionospheric Origin During Magnetic Storms: Their Acceleration Mechanism and Transport Path to Ring Current. Geophysical Monograph Series, 0, , 61-71.	0.1	14
214	Tail Current Disruption in the Geosynchronous Region. Geophysical Monograph Series, 0, , 131-137.	0.1	50
215	New Insights into the Substorm Initiation Sequence from the Spatioâ€temporal Development of Auroral Electrojets. Journal of Geophysical Research: Space Physics, 0, , .	0.8	6