

# Hiroshi Hasegawa

## List of Publications by Year in descending order

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128  
papers

4,659  
citations

101543

36  
h-index

118850

62  
g-index

158  
all docs

158  
docs citations

158  
times ranked

2129  
citing authors

#	ARTICLE	IF	CITATIONS
1	Multi-scale evolution of Kelvinâ€Helmholtz waves at the Earth's magnetopause during southward IMF periods. <i>Physics of Plasmas</i> , 2022, 29, .	1.9	8
2	Multi-scale observations of the magnetopause Kelvinâ€Helmholtz waves during southward IMF. <i>Physics of Plasmas</i> , 2022, 29, .	1.9	12
3	Transport Path of Coldâ€Dense Plasmas in the Dusk Magnetotail Plasma Sheet: MMS Observations. <i>Journal of Geophysical Research: Space Physics</i> , 2022, 127, .	2.4	3
4	Spatial Scales of the Velocity Shear Layer and Kelvinâ€Helmholtz Waves on the Magnetopause: First Statistical Results. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	0
5	Dayside Transient Phenomena and Their Impact on the Magnetosphere and Ionosphere. <i>Space Science Reviews</i> , 2022, 218, .	8.1	35
6	Magnetic Field Annihilation in a Magnetotail Electron Diffusion Region With Electronâ€Scale Magnetic Island. <i>Journal of Geophysical Research: Space Physics</i> , 2022, 127, .	2.4	6
7	Twoâ€Dimensional Velocity of the Magnetic Structure Observed on July 11, 2017 by the Magnetospheric Multiscale Spacecraft. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028705.	2.4	7
8	Energy Transfer Between Hot Protons and Electromagnetic Ion Cyclotron Waves in Compressional Pc5 Ultraâ€low Frequency Waves. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028912.	2.4	6
9	Microscale Processes Determining Macroscale Evolution of Magnetic Flux Tubes along Earthâ€™s Magnetopause. <i>Astrophysical Journal</i> , 2021, 914, 26.	4.5	6
10	Pre-flight Calibration and Near-Earth Commissioning Results of the Mercury Plasma Particle Experiment (MPPE) Onboard MMO (Mio). <i>Space Science Reviews</i> , 2021, 217, 1.	8.1	32
11	Fast Crossâ€Scale Energy Transfer During Turbulent Magnetic Reconnection. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL093524.	4.0	13
12	20â€Years of Cluster Observations: The Magnetopause. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2021JA029362.	2.4	3
13	Reconstruction of the Electron Diffusion Region With Inertia and Compressibility Effects. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2021JA029841.	2.4	7
14	Electron Inflow Velocities and Reconnection Rates at Earth's Magnetopause and Magnetosheath. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL089082.	4.0	23
15	Decay of Kelvinâ€Helmholtz Vortices at the Earth's Magnetopause Under Pure Southward IMF Conditions. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL087574.	4.0	10
16	On the Ubiquity of Magnetic Reconnection Inside Flux Transfer Eventâ€Like Structures at the Earth's Magnetopause. <i>Geophysical Research Letters</i> , 2020, 47, e2019GL086726.	4.0	20
17	Latitudinal Dependence of the Kelvinâ€Helmholtz Instability and Beta Dependence of Vortexâ€Induced Highâ€Guide Field Magnetic Reconnection. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA027333.	2.4	7
18	Generation of Turbulence in Kelvinâ€Helmholtz Vortices at the Earth's Magnetopause: Magnetospheric Multiscale Observations. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA027595.	2.4	15

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19	Effects of Fluctuating Magnetic Field on the Growth of the Kelvinâ€Helmholtz Instability at the Earth's Magnetopause. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA027515.	2.4	21
20	Polynomial Reconstruction of the Reconnection Magnetic Field Observed by Multiple Spacecraft. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA027481.	2.4	38
21	Magnetic Reconnection Inside a Flux Rope Induced by Kelvinâ€Helmholtz Vortices. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA027665.	2.4	26
22	Characteristics of the Flank Magnetopause: MMS Results. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA027623.	2.4	24
23	Magnetic Reconnection Inside a Flux Transfer Eventâ€Like Structure in Magnetopause Kelvinâ€Helmholtz Waves. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA027527.	2.4	10
24	Electron Vorticity Indicative of the Electron Diffusion Region of Magnetic Reconnection. <i>Geophysical Research Letters</i> , 2019, 46, 6287-6296.	4.0	23
25	Fourâ€Spacecraft Measurements of the Shape and Dimensionality of Magnetic Structures in the Nearâ€Earth Plasma Environment. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 6850-6868.	2.4	7
26	Evolution of Turbulence in the Kelvinâ€Helmholtz Instability in the Terrestrial Magnetopause. <i>Atmosphere</i> , 2019, 10, 561.	2.3	8
27	Structure of the Current Sheet in the 11 July 2017 Electron Diffusion Region Event. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 1173-1186.	2.4	34
28	Dimensionality, Coordinate System and Reference Frame for Analysis of In-Situ Space Plasma and Field Data. <i>Space Science Reviews</i> , 2019, 215, 1.	8.1	46
29	Crescentâ€Shaped Electron Distributions at the Nonreconnecting Magnetopause: Magnetospheric Multiscale Observations. <i>Geophysical Research Letters</i> , 2019, 46, 3024-3032.	4.0	17
30	Reconstruction of the Electron Diffusion Region of Magnetotail Reconnection Seen by the MMS Spacecraft on 11 July 2017. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 122-138.	2.4	25
31	Determining <i>L</i> â€ <i>M</i> â€ <i>N</i> Current Sheet Coordinates at the Magnetopause From Magnetospheric Multiscale Data. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 2274-2295.	2.4	38
32	Magnetic Reconnection at a Thin Current Sheet Separating Two Interlaced Flux Tubes at the Earth's Magnetopause. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 1779-1793.	2.4	35
33	Identifying 3â€D Vortex Structures At/Around the Magnetopause Using a Tetrahedral Satellite Configuration. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 10,158.	2.4	6
34	Direct measurements of two-way wave-particle energy transfer in a collisionless space plasma. <i>Science</i> , 2018, 361, 1000-1003.	12.6	36
35	Measurement of the Magnetic Reconnection Rate in the Earth's Magnetotail. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 9150-9168.	2.4	50
36	Observations of Kelvinâ€Helmholtz Waves in the Earth's Magnetotail Near the Lunar Orbit. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 3836-3847.	2.4	13

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37	Seasonal and Solar Wind Control of the Reconnection Line Location on the Earth's Dayside Magnetopause. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 7498-7512.	2.4	10
38	Reconstruction of the electron diffusion region observed by the Magnetospheric Multiscale spacecraft: First results. <i>Geophysical Research Letters</i> , 2017, 44, 4566-4574.	4.0	27
39	MAVEN observations of a giant ionospheric flux rope near Mars resulting from interaction between the crustal and interplanetary draped magnetic fields. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 828-842.	2.4	21
40	Mass and Energy Transfer Across the Earth's Magnetopause Caused by Vortex-Induced Reconnection. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 11,505.	2.4	35
41	Electron dynamics surrounding the X line in asymmetric magnetic reconnection. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 7396-7413.	2.4	20
42	Turbulent mass transfer caused by vortex induced reconnection in collisionless magnetospheric plasmas. <i>Nature Communications</i> , 2017, 8, 1582.	12.8	63
43	Spatial dimensions of the electron diffusion region in anti-parallel magnetic reconnection. <i>Annales Geophysicae</i> , 2016, 34, 357-367.	1.6	17
44	Currents and associated electron scattering and bouncing near the diffusion region at Earth's magnetopause. <i>Geophysical Research Letters</i> , 2016, 43, 3042-3050.	4.0	81
45	Decay of mesoscale flux transfer events during quasi-continuous spatially extended reconnection at the magnetopause. <i>Geophysical Research Letters</i> , 2016, 43, 4755-4762.	4.0	28
46	MAVEN observations of magnetic flux ropes with a strong field amplitude in the Martian magnetosheath during the ICME passage on 8 March 2015. <i>Geophysical Research Letters</i> , 2016, 43, 4816-4824.	4.0	14
47	MAVEN observations of partially developed Kelvin-Helmholtz vortices at Mars. <i>Geophysical Research Letters</i> , 2016, 43, 4763-4773.	4.0	38
48	Thick escaping magnetospheric ion layer in magnetopause reconnection with MMS observations. <i>Geophysical Research Letters</i> , 2016, 43, 6028-6035.	4.0	1
49	Reconstruction of the electron diffusion region. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 4279-4290.	2.4	26
50	Signatures of complex magnetic topologies from multiple reconnection sites induced by Kelvin-Helmholtz instability. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 9926-9939.	2.4	35
51	Reconnection guide field and quadrupolar structure observed by MMS on 16 October 2015 at 1307 UT. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 9880-9887.	2.4	10
52	Jupiter's X-ray and EUV auroras monitored by Chandra, XMM-Newton, and Hisaki satellite. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 2308-2320.	2.4	34
53	Shift of the magnetopause reconnection line to the winter hemisphere under southward IMF conditions: Geotail and MMS observations. <i>Geophysical Research Letters</i> , 2016, 43, 5581-5588.	4.0	17
54	Motion of the MMS spacecraft relative to the magnetic reconnection structure observed on 16 October 2015 at 1307 UT. <i>Geophysical Research Letters</i> , 2016, 43, 5589-5596.	4.0	36

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55	Transient internally driven aurora at Jupiter discovered by Hisaki and the Hubble Space Telescope. <i>Geophysical Research Letters</i> , 2015, 42, 1662-1668.	4.0	53
56	Dual-spacecraft reconstruction of a three-dimensional magnetic flux rope at the Earth's magnetopause. <i>Annales Geophysicae</i> , 2015, 33, 169-184.	1.6	13
57	Can magnetopause reconnection drive Saturn's magnetosphere?. <i>Geophysical Research Letters</i> , 2014, 41, 1862-1868.	4.0	25
58	Formation processes of flux ropes downstream from Martian crustal magnetic fields inferred from Gradâ€šShafranov reconstruction. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 7947-7962.	2.4	22
59	Reconstruction of an evolving magnetic flux rope in the solar wind: Decomposing spatial and temporal variations from singleâ€šspacecraft data. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 97-114.	2.4	10
60	The plasma depletion layer in Saturn's magnetosheath. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 121-130.	2.4	15
61	The spatial structure of Martian magnetic flux ropes recovered by the Gradâ€šShafranov reconstruction technique. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 1262-1271.	2.4	20
62	Multiscale studies of the three-dimensional dayside X-line. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2013, 99, 32-40.	1.6	17
63	Electron acceleration to relativistic energies at a strong quasi-parallel shock wave. <i>Nature Physics</i> , 2013, 9, 164-167.	16.7	62
64	Asymmetry of magnetosheath flows and magnetopause shape during low AlfvÃ©n Mach number solar wind. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 1089-1100.	2.4	49
65	<i>In situ</i> observations of high-Mach number collisionless shocks in space plasmas. <i>Plasma Physics and Controlled Fusion</i> , 2013, 55, 124035.	2.1	7
66	Threeâ€šdimensional magnetic flux rope structure formed by multiple sequential Xâ€šline reconnection at the magnetopause. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 1904-1911.	2.4	48
67	Axis and velocity determination for quasi twoâ€šdimensional plasma/field structures from Faraday's law: A second look. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 2073-2086.	2.4	8
68	Bursty magnetic reconnection at Saturn's magnetopause. <i>Geophysical Research Letters</i> , 2013, 40, 1027-1031.	4.0	73
69	Plasma transport induced by kinetic AlfvÃ©n wave turbulence. <i>Physics of Plasmas</i> , 2012, 19, .	1.9	13
70	Spatial distribution of rolled up Kelvin-Helmholtz vortices at Earth's dayside and flank magnetopause. <i>Annales Geophysicae</i> , 2012, 30, 1025-1035.	1.6	59
71	Inner plasma structure of the lowâ€šlatitude reconnection layer. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	9
72	Magnetic flux rope formation within a magnetosheath hot flow anomaly. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	21

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73	IMPALAS: Investigation of MagnetoPause Activity using Longitudinally-Aligned Satellites—a mission concept proposed for the ESA M3 2020/2022 launch. <i>Experimental Astronomy</i> , 2012, 33, 365-401.	3.7	0
74	Structure and Dynamics of the Magnetopause and Its Boundary Layers. <i>Monographs on Environment Earth and Planets</i> , 2012, 1, 71-119.	9.0	77
75	Evolution of an MHD-scale Kelvin-Helmholtz vortex accompanied by magnetic reconnection: Two-dimensional particle simulations. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	49
76	Reconstruction of steady, three-dimensional, magnetohydrostatic field and plasma structures in space: Theory and benchmarking. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a.	3.3	9
77	Magnetopause reconnection across wide local time. <i>Annales Geophysicae</i> , 2011, 29, 1683-1697.	1.6	57
78	ARTEMIS Science Objectives. <i>Space Science Reviews</i> , 2011, 165, 59-91.	8.1	47
79	A case study of Kelvin-Helmholtz vortices on both flanks of the Earth's magnetotail. <i>Planetary and Space Science</i> , 2011, 59, 502-509.	1.7	21
80	Extended Magnetic Reconnection across the Dayside Magnetopause. <i>Physical Review Letters</i> , 2011, 107, 025004.	7.8	41
81	A powerful tool for browsing quick-look data in solar-terrestrial physics: Conjunction Event Finder. <i>Earth, Planets and Space</i> , 2011, 63, e1-e4.	2.5	12
82	ARTEMIS Science Objectives. , 2011, , 27-59.		4
83	Interplanetary magnetic field rotations followed from L1 to the ground: the response of the Earth's magnetosphere as seen by multi-spacecraft and ground-based observations. <i>Annales Geophysicae</i> , 2011, 29, 1549-1569.	1.6	7
84	In-flight Performance and Initial Results of Plasma Energy Angle and Composition Experiment (PACE) on SELENE (Kaguya). <i>Space Science Reviews</i> , 2010, 154, 265-303.	8.1	123
85	Kinetic effects on the Kelvin-Helmholtz instability in ion-to-magnetohydrodynamic scale transverse velocity shear layers: Particle simulations. <i>Physics of Plasmas</i> , 2010, 17, .	1.9	47
86	Evidence for a flux transfer event generated by multiple line reconnection at the magnetopause. <i>Geophysical Research Letters</i> , 2010, 37, .	4.0	126
87	Magnetopause expansions for quasi-radial interplanetary magnetic field: THEMIS and Geotail observations. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	71
88	On slowly evolving Grad-Shafranov equilibria. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	9
89	Recovery of time evolution of Grad-Shafranov equilibria from single-spacecraft data: Benchmarking and application to a flux transfer event. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	8
90	In-flight Performance and Initial Results of Plasma Energy Angle and Composition Experiment (PACE) on SELENE (Kaguya). , 2010, , 265-303.		1

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91	Mercury Ion Analyzer (MIA) onboard Mercury Magnetospheric Orbiter: MMO. <i>Advances in Space Research</i> , 2009, 43, 1986-1992.	2.6	5
92	Comment on "Evolution of Kelvin-Helmholtz activity on the dusk flank magnetopause" by Foullon et al.. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	8
93	Boundary layer plasma flows from high-latitude reconnection in the summer hemisphere for northward IMF: THEMIS multi-point observations. <i>Geophysical Research Letters</i> , 2009, 36, .	4.0	4
94	Tracing solar wind plasma entry into the magnetosphere using ion-to-electron temperature ratio. <i>Geophysical Research Letters</i> , 2009, 36, .	4.0	24
95	Kelvin-Helmholtz waves at the Earth's magnetopause: Multiscale development and associated reconnection. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	119
96	Observations of loss cone-shaped back streaming energetic protons upstream of the Earth's bow shock. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	0
97	Magnetic island formation between large-scale flow vortices at an undulating postnoon magnetopause for northward interplanetary magnetic field. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	40
98	Retreat and reformation of X-line during quasi-continuous tailward flow at the cusp reconnection under northward IMF. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	20
99	Transient and localized processes in the magnetotail: a review. <i>Annales Geophysicae</i> , 2008, 26, 955-1006.	1.6	112
100	Low-energy charged particle measurement by MAP-PACE onboard SELENE. <i>Earth, Planets and Space</i> , 2008, 60, 375-385.	2.5	53
101	Periodic traveling compression regions during quiet geomagnetic conditions and their association with ground Pi2. <i>Annales Geophysicae</i> , 2008, 26, 3341-3354.	1.6	7
102	Escape of high-energy oxygen ions through magnetopause reconnection under northward IMF. <i>Annales Geophysicae</i> , 2008, 26, 3955-3966.	1.6	12
103	Recovery of streamlines in the flank low-latitude boundary layer. <i>Journal of Geophysical Research</i> , 2007, 112, n/a-n/a.	3.3	21
104	Simultaneous observations of fluctuating cusp aurora and low-latitude magnetopause reconnection. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	7
105	Reconstruction of a bipolar magnetic signature in an earthward jet in the tail: Flux rope or 3D guide-field reconnection?. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	32
106	Cluster observations of a field aligned current at the dawn flank of a bursty bulk flow. <i>Annales Geophysicae</i> , 2007, 25, 1405-1415.	1.6	43
107	Reproducing the bipolar magnetic signature at the jet leading edge by three-dimensional reconnection with nonzero guide field. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	16
108	Simultaneous Geotail and Wind observations of reconnection at the subsolar and tail flank magnetopause. <i>Geophysical Research Letters</i> , 2006, 33, .	4.0	37



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109	Kelvin-Helmholtz instability in a magnetotail flank-like geometry: Three-dimensional MHD simulations. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	93
110	Grad-Shafranov reconstruction: An overview. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	95
111	Single-spacecraft detection of rolled-up Kelvin-Helmholtz vortices at the flank magnetopause. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	153
112	Cross-Scale Coupling Within Rolled-Up MHD-Scale Vortices and Its Effect on Large Scale Plasma Mixing Across the Magnetospheric Boundary. <i>Space Science Reviews</i> , 2006, 122, 3-18.	8.1	4
113	Association of Pi2 pulsations and pulsed reconnection: ground and Cluster observations in the tail lobe at 16 &lt;i>R</i> &lt;sub>E</sub>. <i>Annales Geophysicae</i> , 2006, 24, 3433-3449.	1.6	30
114	The structure of flux transfer events recovered from Cluster data. <i>Annales Geophysicae</i> , 2006, 24, 603-618.	1.6	97
115	Relationship between field-aligned electron fluxes and field line topology at the tail lobe magnetopause: Geotail observations. <i>Advances in Space Research</i> , 2005, 36, 1772-1778.	2.6	6
116	Survey of energetic O<sup>+</sup> ions near the dayside mid-latitude magnetopause with Cluster. <i>Annales Geophysicae</i> , 2005, 23, 1281-1294.	1.6	27
117	Characteristics of the near-tail dawn magnetopause and boundary layer. <i>Annales Geophysicae</i> , 2005, 23, 1481-1497.	1.6	48
118	Optimal reconstruction of magnetopause structures from Cluster data. <i>Annales Geophysicae</i> , 2005, 23, 973-982.	1.6	73
119	Orientation and motion of two-dimensional structures in a space plasma. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	36
120	Four-spacecraft determination of magnetopause orientation, motion and thickness: comparison with results from single-spacecraft methods. <i>Annales Geophysicae</i> , 2004, 22, 1347-1365.	1.6	95
121	Reconstruction of two-dimensional magnetopause structures from Cluster observations: verification of method. <i>Annales Geophysicae</i> , 2004, 22, 1251-1266.	1.6	81
122	Transport of solar wind into Earth's magnetosphere through rolled-up Kelvinâ€™Helmholtz vortices. <i>Nature</i> , 2004, 430, 755-758.	27.8	562
123	Dense and stagnant ions in the low-latitude boundary region under northward interplanetary magnetic field. <i>Geophysical Research Letters</i> , 2004, 31, n/a-n/a.	4.0	38
124	Anatomy of a flux transfer event seen by Cluster. <i>Geophysical Research Letters</i> , 2004, 31, n/a-n/a.	4.0	85
125	Geotail observations of the dayside outer boundary region: Interplanetary magnetic field control and dawn-dusk asymmetry. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	64
126	Plasma entry across the distant tail magnetopause 2. Comparison between MHD theory and observation. <i>Journal of Geophysical Research</i> , 2002, 107, SMP 6-1.	3.3	10



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127	Plasma entry across the distant tail magnetopause 1. Global properties and IMF dependence. Journal of Geophysical Research, 2002, 107, SMP 9-1.	3.3	19
128	Dependence of the distant tail magnetopause position on the solar wind and IMF. Advances in Space Research, 2000, 25, 1485-1488.	2.6	4