Masahiro Hoshino

List of Publications by Year
in descending order

193	7,860	41344	56724
papers	citations	49 h-index	83 g-index

197	197	197	3782
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Particle energization in space plasmas: towards a multi-point, multi-scale plasma observatory. Experimental Astronomy, 2022, 54, 427-471.	3.7	14
2	Particle Acceleration by Pickup Process Upstream of Relativistic Shocks. Astrophysical Journal, 2022, 924, 108.	4.5	4
3	Preferential Energization of Lowerâ€Chargeâ€State Heavier Ions in the Nearâ€Earth Magnetotail. Journal of Geophysical Research: Space Physics, 2022, 127, .	2.4	3
4	High-power laser experiment forming a supercritical collisionless shock in a magnetized uniform plasma at rest. Physical Review E, 2022, 105, 025203.	2.1	8
5	Theory of Electron Injection at Oblique Shock of Finite Thickness. Astrophysical Journal, 2022, 927, 132.	4.5	11
6	Efficiency of nonthermal particle acceleration in magnetic reconnection. Physics of Plasmas, 2022, 29, .	1.9	3
7	Direct observations of pure electron outflow in magnetic reconnection. Scientific Reports, 2022, 12, .	3.3	5
8	Mildly relativistic magnetized shocks in electronâ€“ion plasmas â€“ II. Particle acceleration and heating. Monthly Notices of the Royal Astronomical Society, 2021, 502, 5065-5074.	4.4	14
9	Magnetic Field Amplification by the Weibel Instability at Planetary and Astrophysical Shocks with High Mach Number. Physical Review Letters, 2021, 126, 095101.	7.8	20
10	Nonlinear explosive magnetic reconnection in a collisionless system. Physics of Plasmas, 2021, 28, .	1.9	3
11	Pre-flight Calibration and Near-Earth Commissioning Results of the Mercury Plasma Particle Experiment (MPPE) Onboard MMO (Mio). Space Science Reviews, 2021, 217, 1.	8.1	32
12	Electron Acceleration at Rippled Low-mach-number Shocks in High-beta Collisionless Cosmic Plasmas. Astrophysical Journal, 2021, 919, 97.	4.5	12
13	Mildly relativistic magnetized shocks in electronâ€“ion plasmas â€“ I. Electromagnetic shock structure. Monthly Notices of the Royal Astronomical Society, 2021, 501, 4837-4849.	4.4	8
14	PIC simulation methods for cosmic radiation and plasma instabilities. Progress in Particle and Nuclear Physics, 2020, 111, 103751.	14.4	25
15	Nonthermal electron and ion acceleration by magnetic reconnection in large laser-driven plasmas. Physics of Plasmas, 2020, 27, 112111.	1.9	3
16	The BepiColomboâ€“Mio Magnetometer en Route to Mercury. Space Science Reviews, 2020, 216, 1.	8.1	19
17	Transport Ratios of the Kinetic AlfvÃ©n Mode in Space Plasmas. Frontiers in Physics, 2020, 8, .	2.1	15
18	Observational Evidence for Stochastic Shock Drift Acceleration of Electrons at the Earthâ€™s Bow Shock. Physical Review Letters, 2020, 124, 065101.	7.8	42

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19	Kinetic Simulations of Nonrelativistic Perpendicular Shocks of Young Supernova Remnants. III. Magnetic Reconnection. Astrophysical Journal, 2020, 893, 6.	4.5	26
20	Anisotropic heating and magnetic field generation due to Raman scattering in laser-plasma interactions. Physical Review Research, 2020, 2, .	3.6	13
21	Stabilization of Magnetic Reconnection in the Relativistic Current Sheet. Astrophysical Journal, 2020, 900, 66.	4.5	6
22	Kinetic Simulation of Nonrelativistic Perpendicular Shocks of Young Supernova Remnants. IV. Electron Heating. Astrophysical Journal, 2020, 904, 12.	4.5	16
23	Kinetic Simulations of Nonrelativistic Perpendicular Shocks of Young Supernova Remnants. II. Influence of Shock-surfing Acceleration on Downstream Electron Spectra. Astrophysical Journal, 2019, 885, 10.	4.5	21
24	Anomalous plasma acceleration in colliding high-power laser-produced plasmas. Physics of Plasmas, 2019, 26, 090702.	1.9	7
25	The Efficiency of Coherent Radiation from Relativistic Shocks. Springer Series in Chemical Physics, 2019, , 371-383.	0.2	0
26	Kinetic Simulations of Nonrelativistic Perpendicular Shocks of Young Supernova Remnants. I. Electron Shock-surfing Acceleration. Astrophysical Journal, 2019, 878, 5.	4.5	24
27	Electron Scattering by Low-frequency Whistler Waves at Earthâ€™s Bow Shock. Astrophysical Journal, 2019, 886, 53.	4.5	28
28	Precursor Wave Amplification by Ionâ€“Electron Coupling through Wakefield in Relativistic Shocks. Astrophysical Journal Letters, 2019, 883, L35.	8.3	18
29	Statistical Study on Electron and Ion Temperatures in the Nearâ€Earth Reconnection and Magnetic Pileup Regions. Geophysical Research Letters, 2019, 46, 14223-14229.	4.0	0
30	Electron Acceleration at Rippled Low Mach Number Shocks in Merging Galaxy Clusters. , 2019, , .		4
31	Ion Energies Dominating Energy Density in the Inner Magnetosphere: Spatial Distributions and Composition, Observed by Arase/MEPâ€i. Geophysical Research Letters, 2018, 45, 12,153-12,162.	4.0	15
32	Magnetic reconnection driven by electron dynamics. Nature Communications, 2018, 9, 5109.	12.8	26
33	On the role of separatrix instabilities in heating the reconnection outflow region. Physics of Plasmas, 2018, 25, .	1.9	27
34	Energy Partition between Ion and Electron of Collisionless Magnetic Reconnection. Astrophysical Journal Letters, 2018, 868, L18.	8.3	19
35	A Statistical Study of Slowâ€Mode Shocks Observed by MMS in the Dayside Magnetopause. Geophysical Research Letters, 2018, 45, 4675-4684.	4.0	1
36	Precursor Wave Emission Enhanced by Weibel Instability in Relativistic Shocks. Astrophysical Journal, 2018, 858, 93.	4.5	25

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37	Preface: Nonlinear waves and chaos. Nonlinear Processes in Geophysics, 2018, 25, 477-479.	1.3	0
38	Persistence of Precursor Waves in Two-dimensional Relativistic Shocks. Astrophysical Journal, 2017, 840, 52.	4.5	42
39	Electron Scattering by High-frequency Whistler Waves at Earthâ€™s Bow Shock. Astrophysical Journal Letters, 2017, 842, L11.	8.3	46
40	Stratified Simulations of Collisionless Accretion Disks. Astrophysical Journal, 2017, 842, 36.	4.5	5
41	Electron Surfing and Drift Accelerations in a Weibel-Dominated High-Mach-Number Shock. Physical Review Letters, 2017, 119, 105101.	7.8	63
42	Magnetoluminescence. Space Science Reviews, 2017, 207, 291-317.	8.1	48
43	Theory and Modeling for the Magnetospheric Multiscale Mission. , 2017, , 575-628.		0
44	Frontier in Astrophysical Plasma by Using Laser Experiments. Springer Series in Chemical Physics, 2017, , 25-33.	0.2	0
45	Magnetoluminescence. Space Sciences Series of ISSI, 2017, , 291-317.	0.0	0
46	A new framework for magnetohydrodynamic simulations with anisotropic pressure. Journal of Computational Physics, 2016, 327, 851-872.	3.8	11
47	INSTABILITY OF NON-UNIFORM TOROIDAL MAGNETIC FIELDS IN ACCRETION DISKS. Astrophysical Journal, 2016, 822, 87.	4.5	2
48	Turbulence Heating ObserveR â€“ satellite mission proposal. Journal of Plasma Physics, 2016, 82, .	2.1	60
49	Theory and Modeling for the Magnetospheric Multiscale Mission. Space Science Reviews, 2016, 199, 577-630.	8.1	53
50	Determination of the absolute configuration of the pseudo-symmetric natural product elatenyne by the crystalline sponge method. Planta Medica, 2016, 81, S1-S381.	1.3	0
51	Energetic ion acceleration during magnetic reconnection in the Earthâ€™s magnetotail. Earth, Planets and Space, 2015, 67, .	2.5	9
52	Generation of AlfvÃ©nic waves and turbulence in reconnection jets. Journal of Geophysical Research: Space Physics, 2015, 120, 3715-3727.	2.4	13
53	Ion beta dependence on the development of AlfvÃ©nic fluctuations in reconnection jets. Journal of Geophysical Research: Space Physics, 2015, 120, 1803-1813.	2.4	8
54	Stochastic electron acceleration during spontaneous turbulent reconnection in a strong shock wave. Science, 2015, 347, 974-978.	12.6	135

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55	Angular Momentum Transport and Particle Acceleration During Magnetorotational Instability in a Kinetic Accretion Disk. Physical Review Letters, 2015, 114, 061101.	7.8	42
56	Asymmetric evolution of magnetic reconnection in collisionless accretion disk. Physics of Plasmas, 2014, 21, .	1.9	7
57	First-principles simulations of electrostatic interactions between dust grains. Physics of Plasmas, 2014, 21, 123707.	1.9	5
58	Electron Acceleration in a Nonrelativistic Shock with Very High AlfvÃ©n Mach Number. Physical Review Letters, 2013, 111, 215003.	7.8	39
59	Explosive Turbulent Magnetic Reconnection. Physical Review Letters, 2013, 110, 255001.	7.8	30
60	Double power-law spectra of energetic electrons in the Earth magnetotail. Annales Geophysicae, 2013, 31, 91-106.	1.6	12
61	Magnetic reconnection under anisotropic magnetohydrodynamic approximation. Physics of Plasmas, 2013, 20, .	1.9	6
62	Transport enhancement and suppression in turbulent magnetic reconnection: A self-consistent turbulence model. Physics of Plasmas, 2013, 20, .	1.9	21
63	STABILITY OF COSMIC-RAY MODIFIED SHOCKS: TWO-FLUID APPROACH. Astrophysical Journal, 2013, 775, 130.	4.5	5
64	PARTICLE ACCELERATION DURING MAGNETOROTATIONAL INSTABILITY IN A COLLISIONLESS ACCRETION DISK. Astrophysical Journal, 2013, 773, 118.	4.5	40
65	Laboratory investigations on the origins of cosmic rays. Plasma Physics and Controlled Fusion, 2012, 54, 124049.	2.1	18
66	ELECTRON ACCELERATIONS AT HIGH MACH NUMBER SHOCKS: TWO-DIMENSIONAL PARTICLE-IN-CELL SIMULATIONS IN VARIOUS PARAMETER REGIMES. Astrophysical Journal, 2012, 755, 109.	4.5	49
67	Particle Acceleration in the Magnetotail and Aurora. Space Science Reviews, 2012, 173, 49-102.	8.1	173
68	Relativistic Reconnection and Particle Acceleration. Space Science Reviews, 2012, 173, 521-533.	8.1	80
69	Stochastic Particle Acceleration in Multiple Magnetic Islands during Reconnection. Physical Review Letters, 2012, 108, 135003.	7.8	116
70	On the universality of nonthermal electron acceleration due to quasi-turbulent wakefields. High Energy Density Physics, 2012, 8, 266-270.	1.5	8
71	The relation between ion temperature anisotropy and formation of slow shocks in collisionless magnetic reconnection. Journal of Geophysical Research, 2012, 117, .	3.3	35
72	Particle Acceleration in the Magnetotail and Aurora. Space Sciences Series of ISSI, 2012, , 49-102.	0.0	2

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73	Recent Progress in the Theory of Electron Injection in Collisionless Shocks. Thirty Years of Astronomical Discovery With UKIRT, 2012, , 143-152.	0.3	1
74	Relativistic Reconnection and Particle Acceleration. Space Sciences Series of ISSI, 2012, , 521-533.	0.0	0
75	Magnetic reconnection in an anisotropic plasma: Observation and theory. Geophysical Research Letters, 2011, 38, n/a-n/a.	4.0	7
76	Favorable conditions for energetic electron acceleration during magnetic reconnection in the Earth's magnetotail. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	30
77	Non-adiabatic Ion Acceleration in the Earth Magnetotail and Its Various Manifestations in the Plasma Sheet Boundary Layer. Space Science Reviews, 2011, 164, 133-181.	8.1	33
78	Experimental evidence of nonthermal acceleration of relativistic electrons by an intensive laser pulse. Physical Review E, 2011, 83, 026401.	2.1	18
79	Model experiment of cosmic ray acceleration due to an incoherent wakefield induced by an intense laser pulse. Physics of Plasmas, 2011, 18, 010701.	1.9	23
80	Flow-turbulence interaction in magnetic reconnection. Physics of Plasmas, 2011, 18, .	1.9	24
81	In-flight Performance and Initial Results of Plasma Energy Angle and Composition Experiment (PACE) onÂSELENE (Kaguya). Space Science Reviews, 2010, 154, 265-303.	8.1	123
82	Magnetic field investigation of Mercury's magnetosphere and the inner heliosphere by MMO/MGF. Planetary and Space Science, 2010, 58, 279-286.	1.7	29
83	A Critical Mach Number for Electron Injection in Collisionless Shocks. Physical Review Letters, 2010, 104, 181102.	7.8	40
84	Structure of a strong supernova shock wave and rapid electron acceleration confined in its transition region. Physics of Plasmas, 2010, 17, 032902.	1.9	2
85	In-flight Performance and Initial Results of Plasma Energy Angle and Composition Experiment (PACE) on SELENE (Kaguya). , 2010, , 265-303.		1
86	Nonlinear evolution of Buneman instability and its implication for electron acceleration in high Mach number collisionless perpendicular shocks. Physics of Plasmas, 2009, 16, .	1.9	38
87	Radiation-Dominated Relativistic Current Sheets. Physical Review Letters, 2009, 103, 075002.	7.8	54
88	ELECTRON SHOCK SURFING ACCELERATION IN MULTIDIMENSIONS: TWO-DIMENSIONAL PARTICLE-IN-CELL SIMULATION OF COLLISIONLESS PERPENDICULAR SHOCK. Astrophysical Journal, 2009, 690, 244-251.	4.5	78
89	Role of microscopic plasma instabilities on shock dissipation process. , 2009, , .		0
90	Effect of Shock Angle on Fast and Direct Acceleration of Electrons in High Mach Number Quasi-Perpendicular Shocks. , 2009, , .		0

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91	â€Heart-shapedâ€•plasmoid observed in the distant magnetotail. , 2009, , .		1
92	â€œGeographyâ€•of ion acceleration in the magnetotail: Xâ€line versus current sheet effects. Journal of Geophysical Research, 2009, 114, .	3.3	50
93	Stochastic particle acceleration by the forced interaction of relativistic current sheets. Advances in Space Research, 2008, 41, 481-490.	2.6	14
94	The dawnâ€dusk asymmetry of energetic electron in the Earth's magnetotail: Observation and transport models. Journal of Geophysical Research, 2008, 113, .	3.3	16
95	Transient and localized processes in the magnetotail: a review. Annales Geophysicae, 2008, 26, 955-1006.	1.6	112
96	Low-energy charged particle measurement by MAP-PACE onboard SELENE. Earth, Planets and Space, 2008, 60, 375-385.	2.5	53
97	Wakefield Acceleration by Radiation Pressure in Relativistic Shock Waves. Astrophysical Journal, 2008, 672, 940-956.	4.5	56
98	Nonthermal Acceleration of Charged Particles due to an Incoherent Wakefield Induced by a Large-Amplitude Light Pulse. Astrophysical Journal, 2008, 682, L113-L116.	4.5	28
99	Interaction between Alternating Magnetic Fields and a Relativistic Collisionless Shock. Astrophysical Journal, 2008, 680, 627-638.	4.5	11
100	The Role of the Guide Field in Relativistic Pair Plasma Reconnection. Astrophysical Journal, 2008, 677, 530-544.	4.5	112
101	Particle Acceleration and Magnetic Dissipation in Relativistic Current Sheet of Pair Plasmas. Astrophysical Journal, 2007, 670, 702-726.	4.5	176
102	Energetic electron acceleration in the downstream reconnection outflow region. Journal of Geophysical Research, 2007, 112, n/a-n/a.	3.3	131
103	Dynamics of thin current sheets: Cluster observations. Annales Geophysicae, 2007, 25, 1365-1389.	1.6	83
104	Electron Injection at High Mach Number Quasiâ€perpendicular Shocks: Surfing and Drift Acceleration. Astrophysical Journal, 2007, 661, 190-202.	4.5	68
105	Turbulent mixing and transport of collisionless plasmas across a stratified velocity shear layer. Journal of Geophysical Research, 2006, 111, .	3.3	77
106	The magnetosphere of Mercury and its solar wind environment: Open issues and scientific questions. Advances in Space Research, 2006, 38, 604-609.	2.6	40
107	The Dawn-Dusk Asymmetry in Magnetosheath and the Leakage of Energetic Electrons: The Geotail Observation. COSPAR Colloquia Series, 2005, , 34-37.	0.2	4
108	Particle-Field Dynamics in the Shock Transition Region. COSPAR Colloquia Series, 2005, 16, 289-292.	0.2	0

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109	Relativistic Particle Acceleration in a Folded Current Sheet. Astrophysical Journal, 2005, 618, L111-L114.	4.5	52
110	Stratified Current Sheet During Plasma Sheet Thinning. COSPAR Colloquia Series, 2005, , 108-112.	0.2	2
111	New Non-Stochastic Acceleration in Multi-Component Plasmas. COSPAR Colloquia Series, 2005, 16, 261-264.	0.2	0
112	X-ray measurements of highly charged Ar ions passing through a Ni microcapillary: Coincidence of L X-rays and final charge states. Nuclear Instruments & Methods in Physics Research B, 2005, 233, 103-110.	1.4	3
113	X-rays emitted from N ions transmitted through a thin Ni microcapillary target. Nuclear Instruments & Methods in Physics Research B, 2005, 235, 468-472.	1.4	2
114	Repeated injections of energy in the first 600â€‰ms of the giant flare of SGRâ€‰1806â€“20. Nature, 2005, 434, 1110-1111.	27.8	131
115	Two types of PSBL ion beam observed by Geotail: Their relation to low frequency electromagnetic waves and cold ion energization. Advances in Space Research, 2005, 36, 1883-1889.	2.6	11
116	Geotail Observations of the Cold Plasma Sheet on the Duskside Magnetotail. COSPAR Colloquia Series, 2005, , 28-33.	0.2	6
117	Three-Dimensional Evolution of a Relativistic Current Sheet: Triggering of Magnetic Reconnection by the Guide Field. Physical Review Letters, 2005, 95, 095001.	7.8	54
118	Forced magnetic reconnection. Geophysical Research Letters, 2005, 32, .	4.0	96
119	Effect of strong thermalization on shock dynamical behavior. Journal of Geophysical Research, 2005, 110, .	3.3	32
120	Average profiles of energetic and thermal electrons in the magnetotail reconnection regions. Geophysical Research Letters, 2005, 32, .	4.0	40
121	Electron surfing acceleration in magnetic reconnection. Journal of Geophysical Research, 2005, 110, .	3.3	128
122	Electron heating and acceleration in the shock transition region: Background plasma parameter dependence. Physics of Plasmas, 2004, 11, 1840-1849.	1.9	46
123	Selected Problems in Collisionless-Shock Physics. Space Science Reviews, 2004, 110, 161-226.	8.1	145
124	Onset of turbulence induced by a Kelvin-Helmholtz vortex. Geophysical Research Letters, 2004, 31, .	4.0	121
125	Current sheet structure around the near-Earth neutral line observed by Geotail. Journal of Geophysical Research, 2004, 109, .	3.3	66
126	Statistical study of thin current sheet evolution around substorm onset. Journal of Geophysical Research, 2004, 109, .	3.3	71

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127	Cold ions in the hot plasma sheet of Earth's magnetotail. Nature, 2003, 422, 589-592.	27.8	74
128	Substorm expansion phase: Observations from Geotail, Polar and IMAGE network. Journal of Geophysical Research, 2003, 108, .	3.3	20
129	Evolution of the thin current sheet in a substorm observed by Geotail. Journal of Geophysical Research, 2003, 108, .	3.3	98
130	SPACE PHYSICS: Coupling Across Many Scales. Science, 2003, 299, 834-835.	12.6	14
131	The dynamics of electronâ€“ion coupling in the shock transition region. Physics of Plasmas, 2003, 10, 1113-1119.	1.9	21
132	Direct Particle Acceleration in Astroplasmas. AIP Conference Proceedings, 2002, , .	0.4	0
133	Nonthermal Electrons at High Mach Number Shocks: Electron Shock Surfing Acceleration. Astrophysical Journal, 2002, 572, 880-887.	4.5	143
134	Increase of the tail plasma content during the northward interplanetary magnetic field intervals: Case studies. Journal of Geophysical Research, 2002, 107, SMP 25-1.	3.3	15
135	The structure of the dissipation region for component reconnection: Particle simulations. Geophysical Research Letters, 2002, 29, 4-1.	4.0	129
136	Suprathermal electrons during magnetic reconnection: Fermi model. Advances in Space Research, 2002, 30, 1639-1644.	2.6	3
137	Relativistic Plasma Physics. 7. Relativistic Particle Acceleration as Origin of Cosmic Ray.. Journal of Plasma and Fusion Research, 2002, 78, 668-677.	0.4	1
138	Suprathermal electron acceleration in magnetic reconnection. Journal of Geophysical Research, 2001, 106, 25979-25997.	3.3	310
139	On the pressure balance in the distant magnetotail. Journal of Geophysical Research, 2001, 106, 25905-25917.	3.3	11
140	Preferential acceleration of heavy ions in multi-component plasmas. Geophysical Research Letters, 2001, 28, 3099-3102.	4.0	10
141	Geotail observations of the Hall current system: Evidence of magnetic reconnection in the magnetotail. Journal of Geophysical Research, 2001, 106, 25929-25949.	3.3	298
142	Strong electron heating and non-Maxwellian behavior in magnetic reconnection. Earth, Planets and Space, 2001, 53, 627-634.	2.5	63
143	Nonlinear evolution of plasmoid structure. Earth, Planets and Space, 2001, 53, 663-671.	2.5	16
144	The Generation of Nonthermal Particles in the Relativistic Magnetic Reconnection of Pair Plasmas. Astrophysical Journal, 2001, 562, L63-L66.	4.5	262

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145	Nonthermal Particle Acceleration in Shock Front Region: â€œShock Surfing Accelerations". Progress of Theoretical Physics Supplement, 2001, 143, 149-181.	0.1	30
146	Rapid Large-Scale Magnetic-Field Dissipation in a Collisionless Current Sheet via Coupling between Kelvin-Helmholtz and Lower-Hybrid Drift Instabilities. Physical Review Letters, 2001, 87, 095001.	7.8	49
147	Small scale plasmoids in the post-plasmoid plasma sheet: Origin of MHD turbulence?. Advances in Space Research, 2000, 25, 1685-1688.	2.6	5
148	Non-gyrotropic ions as evidence for an X-type neutral region. Advances in Space Research, 2000, 26, 425-430.	2.6	8
149	GEOTAIL observations of magnetic reconnection in the near-Earth magnetotail. Advances in Space Research, 2000, 25, 1679-1683.	2.6	6
150	Strong Electron Acceleration at High Mach Number Shock Waves: Simulation Study of Electron Dynamics. Astrophysical Journal, 2000, 543, L67-L71.	4.5	142
151	Slow shock downstream structure in the magnetotail. Journal of Geophysical Research, 2000, 105, 337-347.	3.3	31
152	Magnetosheath electrons in anomalously low density solar wind observed by Geotail. Geophysical Research Letters, 2000, 27, 3253-3256.	4.0	9
153	GEOTAIL observations of anomalously low density plasma in the magnetosheath. Geophysical Research Letters, 2000, 27, 3781-3784.	4.0	10
154	Electron heating process of the lower hybrid drift instability. Advances in Space Research, 1999, 24, 43-46.	2.6	14
155	Source and loss processes in the magnetotail. Space Science Reviews, 1999, 88, 285-353.	8.1	13
156	Towards The Understanding of Magnetic Reconnection: Simulation and Satellite Observations. Astrophysics and Space Science Library, 1999, , 311-318.	2.7	0
157	Diffusive Shock Acceleration of Electrons at an Interplanetary Shock Observed on 21 Feb 1994. Astrophysics and Space Science, 1998, 264, 481-488.	1.4	44
158	Ion dynamics in magnetic reconnection: Comparison between numerical simulation and Geotail observations. Journal of Geophysical Research, 1998, 103, 4509-4530.	3.3	136
159	One-over-polynomial approximation for linear kinetic dispersion and its application to relativistic cyclotron resonance. Physics of Plasmas, 1998, 5, 3547-3551.	1.9	11
160	Pre-Onset and Onset Signatures for Substorms in the Near-Tail Plasma Sheet: Geotail Observations. Astrophysics and Space Science Library, 1998, , 131-136.	2.7	12
161	Magnetic Reconnection Beyound Ion Inertia Scale. Astrophysics and Space Science Library, 1998, , 473-478.	2.7	1
162	Geotail observations of ion velocity distributions with multi-beam structures in the post-plasmoid current sheet. Geophysical Research Letters, 1997, 24, 2247-2250.	4.0	16

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163	Cold ion streams consisting of double proton populations and singly charged oxygen observed at the distant magnetopause by Geotail: A case study. Journal of Geophysical Research, 1997, 102, 2359-2372.	3.3	15
164	Particle acceleration at the interplanetary shock ahead of a large magnetic cloud on October 18, 1995: GEOTAIL-WIND collaboration. Advances in Space Research, 1997, 20, 641-644.	2.6	2
165	Origin of hot and high speed plasmas in plasma sheet: Plasma acceleration and heating due to slow shocks. Advances in Space Research, 1997, 20, 973-982.	2.6	15
166	Structure of plasma sheet in magnetotail: Double-peaked electric current sheet. Journal of Geophysical Research, 1996, 101, 24775-24786.	3.3	121
167	Structure and Kinetic Properties of Plasmoids and Their Boundary Regions. Journal of Geomagnetism and Geoelectricity, 1996, 48, 541-560.	0.9	66
168	On the Determination of a Moving MHD Structure: Minimization of the Residue of Integrated Faraday's Equation. Journal of Geomagnetism and Geoelectricity, 1996, 48, 603-614.	0.9	30
169	Structure of plasma sheet current in distant magnetotail: Doubly humped electric current sheet. Advances in Space Research, 1996, 18, 5-8.	2.6	17
170	Evidence of Two Active Reconnection Sites in the Distant Magnetotail. Journal of Geomagnetism and Geoelectricity, 1996, 48, 515-523.	0.9	24
171	Formation of non-thermal, high energy particles in relativistic magnetosonic shock waves. Advances in Space Research, 1995, 15, 67-70.	2.6	2
172	X-Ray Detection of PSR B1259-63 at Periastron. Astrophysical Journal, 1995, 453, 424.	4.5	46
173	X-ray observation of the Jovian impacts of comet Shoemaker - Levy 9. Earth, Moon and Planets, 1994, 66, 75-81.	0.6	0
174	Turbulent magnetic field in the distant magnetotail: Bottom-up process of plasmoid formation?. Geophysical Research Letters, 1994, 21, 2935-2938.	4.0	133
175	A turbulent model of time variability in X-ray binary pulsars. Astrophysical Journal, 1993, 411, L79.	4.5	22
176	A New Class of Exact Solutions for 3D Compressible Reconnection Problem.. Journal of Geomagnetism and Geoelectricity, 1993, 45, 613-618.	0.9	2
177	Relativistic magnetosonic shock waves in synchrotron sources - Shock structure and nonthermal acceleration of positrons. Astrophysical Journal, 1992, 390, 454.	4.5	290
178	Relativistic, perpendicular shocks in electron-positron plasmas. Astrophysical Journal, 1992, 391, 73.	4.5	148
179	Forced magnetic reconnection in a plasma sheet with localized resistivity profile excited by lower hybrid drift type instability. Journal of Geophysical Research, 1991, 96, 11555-11567.	3.3	30
180	Preferential positron heating and acceleration by synchrotron maser instabilities in relativistic positronâ€“electronâ€“proton plasmas. Physics of Fluids B, 1991, 3, 818-833.	1.7	75

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181	Time evolution from linear to nonlinear stages in magnetohydrodynamic parametric instabilities. Physics of Fluids B, 1989, 1, 1405-1415.	1.7	64
182	RAPID EXCITATION OF HIGHER HARMONIC WAVES IN THE PARAMETRIC INSTABILITY OF ALFVÃ‰N WAVES. , 1989, , 119-124.		0
183	Evolution of nonlinear polarization in localized and finite amplitude Alfvèn waves. Physics of Fluids, 1988, 31, 3271.	1.4	10
184	Evolution of Polarization in Localized Nonlinear AlfvÃ©n Waves. Physical Review Letters, 1987, 59, 2639-2642.	7.8	12
185	The electrostatic effect for the collisionless tearing mode. Journal of Geophysical Research, 1987, 92, 7368-7380.	3.3	78
186	Decay instability of finiteâ€amplitude circularly polarized Alfven waves: A numerical simulation of stimulated Brillouin scattering. Journal of Geophysical Research, 1986, 91, 4171-4187.	3.3	226
187	Numerical study of the upstream wave excitation mechanism: 1. Nonlinear phase bunching of beam ions. Journal of Geophysical Research, 1985, 90, 57-64.	3.3	102
188	Numerical simulation of the dayside reconnection. Geophysical Monograph Series, 1984, , 303-304.	0.1	0
189	Numerical simulation of the dayside reconnection. Journal of Geophysical Research, 1983, 88, 6926-6936.	3.3	41
190	LQG based electronic throttle control with a two degree of freedom structure. , 0, , .		14
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