

# Masahiro Hoshino

## List of Publications by Year in descending order

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193  
papers

7,860  
citations

41344

49  
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56724

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197  
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197  
docs citations

197  
times ranked

3782  
citing authors

#	ARTICLE	IF	CITATIONS
1	Suprathermal electron acceleration in magnetic reconnection. <i>Journal of Geophysical Research</i> , 2001, 106, 25979-25997.	3.3	310
2	Geotail observations of the Hall current system: Evidence of magnetic reconnection in the magnetotail. <i>Journal of Geophysical Research</i> , 2001, 106, 25929-25949.	3.3	298
3	Relativistic magnetosonic shock waves in synchrotron sources - Shock structure and nonthermal acceleration of positrons. <i>Astrophysical Journal</i> , 1992, 390, 454.	4.5	290
4	The Generation of Nonthermal Particles in the Relativistic Magnetic Reconnection of Pair Plasmas. <i>Astrophysical Journal</i> , 2001, 562, L63-L66.	4.5	262
5	Decay instability of finite-amplitude circularly polarized Alfvén waves: A numerical simulation of stimulated Brillouin scattering. <i>Journal of Geophysical Research</i> , 1986, 91, 4171-4187.	3.3	226
6	Particle Acceleration and Magnetic Dissipation in Relativistic Current Sheet of Pair Plasmas. <i>Astrophysical Journal</i> , 2007, 670, 702-726.	4.5	176
7	Particle Acceleration in the Magnetotail and Aurora. <i>Space Science Reviews</i> , 2012, 173, 49-102.	8.1	173
8	Relativistic, perpendicular shocks in electron-positron plasmas. <i>Astrophysical Journal</i> , 1992, 391, 73.	4.5	148
9	Selected Problems in Collisionless-Shock Physics. <i>Space Science Reviews</i> , 2004, 110, 161-226.	8.1	145
10	Nonthermal Electrons at High Mach Number Shocks: Electron Shock Surfing Acceleration. <i>Astrophysical Journal</i> , 2002, 572, 880-887.	4.5	143
11	Strong Electron Acceleration at High Mach Number Shock Waves: Simulation Study of Electron Dynamics. <i>Astrophysical Journal</i> , 2000, 543, L67-L71.	4.5	142
12	Ion dynamics in magnetic reconnection: Comparison between numerical simulation and Geotail observations. <i>Journal of Geophysical Research</i> , 1998, 103, 4509-4530.	3.3	136
13	Stochastic electron acceleration during spontaneous turbulent reconnection in a strong shock wave. <i>Science</i> , 2015, 347, 974-978.	12.6	135
14	Turbulent magnetic field in the distant magnetotail: Bottom-up process of plasmoid formation?. <i>Geophysical Research Letters</i> , 1994, 21, 2935-2938.	4.0	133
15	Repeated injections of energy in the first 600 ms of the giant flare of SGR 1806-20. <i>Nature</i> , 2005, 434, 1110-1111.	27.8	131
16	Energetic electron acceleration in the downstream reconnection outflow region. <i>Journal of Geophysical Research</i> , 2007, 112, n/a-n/a.	3.3	131
17	The structure of the dissipation region for component reconnection: Particle simulations. <i>Geophysical Research Letters</i> , 2002, 29, 4-1.	4.0	129
18	Electron surfing acceleration in magnetic reconnection. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	128

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19	In-flight Performance and Initial Results of Plasma Energy Angle and Composition Experiment (PACE) on AÉLENE (Kaguya). Space Science Reviews, 2010, 154, 265-303.	8.1	123
20	Structure of plasma sheet in magnetotail: Double-peaked electric current sheet. Journal of Geophysical Research, 1996, 101, 24775-24786.	3.3	121
21	Onset of turbulence induced by a Kelvin-Helmholtz vortex. Geophysical Research Letters, 2004, 31, .	4.0	121
22	Stochastic Particle Acceleration in Multiple Magnetic Islands during Reconnection. Physical Review Letters, 2012, 108, 135003.	7.8	116
23	Transient and localized processes in the magnetotail: a review. Annales Geophysicae, 2008, 26, 955-1006.	1.6	112
24	The Role of the Guide Field in Relativistic Pair Plasma Reconnection. Astrophysical Journal, 2008, 677, 530-544.	4.5	112
25	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
26	Evolution of the thin current sheet in a substorm observed by Geotail. Journal of Geophysical Research, 2003, 108, .	3.3	98
27	Forced magnetic reconnection. Geophysical Research Letters, 2005, 32, .	4.0	96
28	Dynamics of thin current sheets: Cluster observations. Annales Geophysicae, 2007, 25, 1365-1389.	1.6	83
29	Relativistic Reconnection and Particle Acceleration. Space Science Reviews, 2012, 173, 521-533.	8.1	80
30	The electrostatic effect for the collisionless tearing mode. Journal of Geophysical Research, 1987, 92, 7368-7380.	3.3	78
31	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
32	Turbulent mixing and transport of collisionless plasmas across a stratified velocity shear layer. Journal of Geophysical Research, 2006, 111, .	3.3	77
33	Preferential positron heating and acceleration by synchrotron maser instabilities in relativistic positron-électron-é proton plasmas. Physics of Fluids B, 1991, 3, 818-833.	1.7	75
34	Cold ions in the hot plasma sheet of Earth's magnetotail. Nature, 2003, 422, 589-592.	27.8	74
35	Statistical study of thin current sheet evolution around substorm onset. Journal of Geophysical Research, 2004, 109, .	3.3	71
36	Electron Injection at High Mach Number Quasi-éperpendicular Shocks: Surfing and Drift Acceleration. Astrophysical Journal, 2007, 661, 190-202.	4.5	68

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37	Structure and Kinetic Properties of Plasmoids and Their Boundary Regions. <i>Journal of Geomagnetism and Geoelectricity</i> , 1996, 48, 541-560.	0.9	66
38	Current sheet structure around the near-Earth neutral line observed by Geotail. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	66
39	Time evolution from linear to nonlinear stages in magnetohydrodynamic parametric instabilities. <i>Physics of Fluids B</i> , 1989, 1, 1405-1415.	1.7	64
40	Strong electron heating and non-Maxwellian behavior in magnetic reconnection. <i>Earth, Planets and Space</i> , 2001, 53, 627-634.	2.5	63
41	Electron Surfing and Drift Accelerations in a Weibel-Dominated High-Mach-Number Shock. <i>Physical Review Letters</i> , 2017, 119, 105101.	7.8	63
42	Turbulence Heating ObserverR " satellite mission proposal. <i>Journal of Plasma Physics</i> , 2016, 82, .	2.1	60
43	Wakefield Acceleration by Radiation Pressure in Relativistic Shock Waves. <i>Astrophysical Journal</i> , 2008, 672, 940-956.	4.5	56
44	Three-Dimensional Evolution of a Relativistic Current Sheet: Triggering of Magnetic Reconnection by the Guide Field. <i>Physical Review Letters</i> , 2005, 95, 095001.	7.8	54
45	Radiation-Dominated Relativistic Current Sheets. <i>Physical Review Letters</i> , 2009, 103, 075002.	7.8	54
46	Low-energy charged particle measurement by MAP-PACE onboard SELENE. <i>Earth, Planets and Space</i> , 2008, 60, 375-385.	2.5	53
47	Theory and Modeling for the Magnetospheric Multiscale Mission. <i>Space Science Reviews</i> , 2016, 199, 577-630.	8.1	53
48	Relativistic Particle Acceleration in a Folded Current Sheet. <i>Astrophysical Journal</i> , 2005, 618, L111-L114.	4.5	52
49	"Geography" of ion acceleration in the magnetotail: <i>X</i> line versus current sheet effects. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	50
50	Rapid Large-Scale Magnetic-Field Dissipation in a Collisionless Current Sheet via Coupling between Kelvin-Helmholtz and Lower-Hybrid Drift Instabilities. <i>Physical Review Letters</i> , 2001, 87, 095001.	7.8	49
51	ELECTRON ACCELERATIONS AT HIGH MACH NUMBER SHOCKS: TWO-DIMENSIONAL PARTICLE-IN-CELL SIMULATIONS IN VARIOUS PARAMETER REGIMES. <i>Astrophysical Journal</i> , 2012, 755, 109.	4.5	49
52	Magnetoluminescence. <i>Space Science Reviews</i> , 2017, 207, 291-317.	8.1	48
53	Electron heating and acceleration in the shock transition region: Background plasma parameter dependence. <i>Physics of Plasmas</i> , 2004, 11, 1840-1849.	1.9	46
54	Electron Scattering by High-frequency Whistler Waves at Earth's Bow Shock. <i>Astrophysical Journal Letters</i> , 2017, 842, L11.	8.3	46

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55	X-Ray Detection of PSR B1259-63 at Periastron. <i>Astrophysical Journal</i> , 1995, 453, 424.	4.5	46
56	Diffusive Shock Acceleration of Electrons at an Interplanetary Shock Observed on 21 Feb 1994. <i>Astrophysics and Space Science</i> , 1998, 264, 481-488.	1.4	44
57	Angular Momentum Transport and Particle Acceleration During Magnetorotational Instability in a Kinetic Accretion Disk. <i>Physical Review Letters</i> , 2015, 114, 061101.	7.8	42
58	Persistence of Precursor Waves in Two-dimensional Relativistic Shocks. <i>Astrophysical Journal</i> , 2017, 840, 52.	4.5	42
59	Observational Evidence for Stochastic Shock Drift Acceleration of Electrons at the Earth's Bow Shock. <i>Physical Review Letters</i> , 2020, 124, 065101.	7.8	42
60	Numerical simulation of the dayside reconnection. <i>Journal of Geophysical Research</i> , 1983, 88, 6926-6936.	3.3	41
61	Average profiles of energetic and thermal electrons in the magnetotail reconnection regions. <i>Geophysical Research Letters</i> , 2005, 32, .	4.0	40
62	The magnetosphere of Mercury and its solar wind environment: Open issues and scientific questions. <i>Advances in Space Research</i> , 2006, 38, 604-609.	2.6	40
63	A Critical Mach Number for Electron Injection in Collisionless Shocks. <i>Physical Review Letters</i> , 2010, 104, 181102.	7.8	40
64	PARTICLE ACCELERATION DURING MAGNETOROTATIONAL INSTABILITY IN A COLLISIONLESS ACCRETION DISK. <i>Astrophysical Journal</i> , 2013, 773, 118.	4.5	40
65	Electron Acceleration in a Nonrelativistic Shock with Very High Alfvén Mach Number. <i>Physical Review Letters</i> , 2013, 111, 215003.	7.8	39
66	Nonlinear evolution of Buneman instability and its implication for electron acceleration in high Mach number collisionless perpendicular shocks. <i>Physics of Plasmas</i> , 2009, 16, .	1.9	38
67	The relation between ion temperature anisotropy and formation of slow shocks in collisionless magnetic reconnection. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	35
68	Non-adiabatic Ion Acceleration in the Earth Magnetotail and Its Various Manifestations in the Plasma Sheet Boundary Layer. <i>Space Science Reviews</i> , 2011, 164, 133-181.	8.1	33
69	Effect of strong thermalization on shock dynamical behavior. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	32
70	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
71	Slow shock downstream structure in the magnetotail. <i>Journal of Geophysical Research</i> , 2000, 105, 337-347.	3.3	31
72	Forced magnetic reconnection in a plasma sheet with localized resistivity profile excited by lower hybrid drift type instability. <i>Journal of Geophysical Research</i> , 1991, 96, 11555-11567.	3.3	30

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73	On the Determination of a Moving MHD Structure: Minimization of the Residue of Integrated Faraday's Equation. <i>Journal of Geomagnetism and Geoelectricity</i> , 1996, 48, 603-614.	0.9	30
74	Nonthermal Particle Acceleration in Shock Front Region: "Shock Surfing Accelerations". <i>Progress of Theoretical Physics Supplement</i> , 2001, 143, 149-181.	0.1	30
75	Favorable conditions for energetic electron acceleration during magnetic reconnection in the Earth's magnetotail. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a.	3.3	30
76	Explosive Turbulent Magnetic Reconnection. <i>Physical Review Letters</i> , 2013, 110, 255001.	7.8	30
77	Magnetic field investigation of Mercury's magnetosphere and the inner heliosphere by MMO/MGF. <i>Planetary and Space Science</i> , 2010, 58, 279-286.	1.7	29
78	Nonthermal Acceleration of Charged Particles due to an Incoherent Wakefield Induced by a Large-Amplitude Light Pulse. <i>Astrophysical Journal</i> , 2008, 682, L113-L116.	4.5	28
79	Electron Scattering by Low-frequency Whistler Waves at Earth's Bow Shock. <i>Astrophysical Journal</i> , 2019, 886, 53.	4.5	28
80	On the role of separatrix instabilities in heating the reconnection outflow region. <i>Physics of Plasmas</i> , 2018, 25, .	1.9	27
81	Magnetic reconnection driven by electron dynamics. <i>Nature Communications</i> , 2018, 9, 5109.	12.8	26
82	Kinetic Simulations of Nonrelativistic Perpendicular Shocks of Young Supernova Remnants. III. Magnetic Reconnection. <i>Astrophysical Journal</i> , 2020, 893, 6.	4.5	26
83	Precursor Wave Emission Enhanced by Weibel Instability in Relativistic Shocks. <i>Astrophysical Journal</i> , 2018, 858, 93.	4.5	25
84	PIC simulation methods for cosmic radiation and plasma instabilities. <i>Progress in Particle and Nuclear Physics</i> , 2020, 111, 103751.	14.4	25
85	Flow-turbulence interaction in magnetic reconnection. <i>Physics of Plasmas</i> , 2011, 18, .	1.9	24
86	Kinetic Simulations of Nonrelativistic Perpendicular Shocks of Young Supernova Remnants. I. Electron Shock-surfing Acceleration. <i>Astrophysical Journal</i> , 2019, 878, 5.	4.5	24
87	Evidence of Two Active Reconnection Sites in the Distant Magnetotail. <i>Journal of Geomagnetism and Geoelectricity</i> , 1996, 48, 515-523.	0.9	24
88	Model experiment of cosmic ray acceleration due to an incoherent wakefield induced by an intense laser pulse. <i>Physics of Plasmas</i> , 2011, 18, 010701.	1.9	23
89	A turbulent model of time variability in X-ray binary pulsars. <i>Astrophysical Journal</i> , 1993, 411, L79.	4.5	22
90	The dynamics of electron-ion coupling in the shock transition region. <i>Physics of Plasmas</i> , 2003, 10, 1113-1119.	1.9	21

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91	Transport enhancement and suppression in turbulent magnetic reconnection: A self-consistent turbulence model. <i>Physics of Plasmas</i> , 2013, 20, .	1.9	21
92	Kinetic Simulations of Nonrelativistic Perpendicular Shocks of Young Supernova Remnants. II. Influence of Shock-surfing Acceleration on Downstream Electron Spectra. <i>Astrophysical Journal</i> , 2019, 885, 10.	4.5	21
93	Substorm expansion phase: Observations from Geotail, Polar and IMAGE network. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	20
94	Magnetic Field Amplification by the Weibel Instability at Planetary and Astrophysical Shocks with High Mach Number. <i>Physical Review Letters</i> , 2021, 126, 095101.	7.8	20
95	Energy Partition between Ion and Electron of Collisionless Magnetic Reconnection. <i>Astrophysical Journal Letters</i> , 2018, 868, L18.	8.3	19
96	The BepiColomboâ€œMio Magnetometer en Route to Mercury. <i>Space Science Reviews</i> , 2020, 216, 1.	8.1	19
97	Experimental evidence of nonthermal acceleration of relativistic electrons by an intensive laser pulse. <i>Physical Review E</i> , 2011, 83, 026401.	2.1	18
98	Laboratory investigations on the origins of cosmic rays. <i>Plasma Physics and Controlled Fusion</i> , 2012, 54, 124049.	2.1	18
99	Precursor Wave Amplification by Ionâ€œElectron Coupling through Wakefield in Relativistic Shocks. <i>Astrophysical Journal Letters</i> , 2019, 883, L35.	8.3	18
100	Structure of plasma sheet current in distant magnetotail: Doubly humped electric current sheet. <i>Advances in Space Research</i> , 1996, 18, 5-8.	2.6	17
101	Geotail observations of ion velocity distributions with multi-beam structures in the post-plasmoid current sheet. <i>Geophysical Research Letters</i> , 1997, 24, 2247-2250.	4.0	16
102	Nonlinear evolution of plasmoid structure. <i>Earth, Planets and Space</i> , 2001, 53, 663-671.	2.5	16
103	The dawnâ€œdusk asymmetry of energetic electron in the Earth's magnetotail: Observation and transport models. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	16
104	Kinetic Simulation of Nonrelativistic Perpendicular Shocks of Young Supernova Remnants. IV. Electron Heating. <i>Astrophysical Journal</i> , 2020, 904, 12.	4.5	16
105	Cold ion streams consisting of double proton populations and singly charged oxygen observed at the distant magnetopause by Geotail: A case study. <i>Journal of Geophysical Research</i> , 1997, 102, 2359-2372.	3.3	15
106	Origin of hot and high speed plasmas in plasma sheet: Plasma acceleration and heating due to slow shocks. <i>Advances in Space Research</i> , 1997, 20, 973-982.	2.6	15
107	Increase of the tail plasma content during the northward interplanetary magnetic field intervals: Case studies. <i>Journal of Geophysical Research</i> , 2002, 107, SMP 25-1.	3.3	15
108	Ion Energies Dominating Energy Density in the Inner Magnetosphere: Spatial Distributions and Composition, Observed by Arase/MEPâ€œ. <i>Geophysical Research Letters</i> , 2018, 45, 12,153-12,162.	4.0	15

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109	Transport Ratios of the Kinetic Alfvén Mode in Space Plasmas. <i>Frontiers in Physics</i> , 2020, 8, .	2.1	15
110	LQG based electronic throttle control with a two degree of freedom structure. , 0, , .		14
111	Electron heating process of the lower hybrid drift instability. <i>Advances in Space Research</i> , 1999, 24, 43-46.	2.6	14
112	SPACE PHYSICS: Coupling Across Many Scales. <i>Science</i> , 2003, 299, 834-835.	12.6	14
113	Stochastic particle acceleration by the forced interaction of relativistic current sheets. <i>Advances in Space Research</i> , 2008, 41, 481-490.	2.6	14
114	Mildly relativistic magnetized shocks in electron-ion plasmas – II. Particle acceleration and heating. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 502, 5065-5074.	4.4	14
115	Particle energization in space plasmas: towards a multi-point, multi-scale plasma observatory. <i>Experimental Astronomy</i> , 2022, 54, 427-471.	3.7	14
116	Source and loss processes in the magnetotail. <i>Space Science Reviews</i> , 1999, 88, 285-353.	8.1	13
117	Generation of Alfvénic waves and turbulence in reconnection jets. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 3715-3727.	2.4	13
118	Anisotropic heating and magnetic field generation due to Raman scattering in laser-plasma interactions. <i>Physical Review Research</i> , 2020, 2, .	3.6	13
119	Evolution of Polarization in Localized Nonlinear Alfvén Waves. <i>Physical Review Letters</i> , 1987, 59, 2639-2642.	7.8	12
120	Double power-law spectra of energetic electrons in the Earth magnetotail. <i>Annales Geophysicae</i> , 2013, 31, 91-106.	1.6	12
121	Electron Acceleration at Rippled Low-mach-number Shocks in High-beta Collisionless Cosmic Plasmas. <i>Astrophysical Journal</i> , 2021, 919, 97.	4.5	12
122	Pre-Onset and Onset Signatures for Substorms in the Near-Tail Plasma Sheet: Geotail Observations. <i>Astrophysics and Space Science Library</i> , 1998, , 131-136.	2.7	12
123	One-over-polynomial approximation for linear kinetic dispersion and its application to relativistic cyclotron resonance. <i>Physics of Plasmas</i> , 1998, 5, 3547-3551.	1.9	11
124	On the pressure balance in the distant magnetotail. <i>Journal of Geophysical Research</i> , 2001, 106, 25905-25917.	3.3	11
125	Two types of PSBL ion beam observed by Geotail: Their relation to low frequency electromagnetic waves and cold ion energization. <i>Advances in Space Research</i> , 2005, 36, 1883-1889.	2.6	11
126	Interaction between Alternating Magnetic Fields and a Relativistic Collisionless Shock. <i>Astrophysical Journal</i> , 2008, 680, 627-638.	4.5	11



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127	A new framework for magnetohydrodynamic simulations with anisotropic pressure. <i>Journal of Computational Physics</i> , 2016, 327, 851-872.	3.8	11
128	Theory of Electron Injection at Oblique Shock of Finite Thickness. <i>Astrophysical Journal</i> , 2022, 927, 132.	4.5	11
129	Evolution of nonlinear polarization in localized and finite amplitude Alfvén waves. <i>Physics of Fluids</i> , 1988, 31, 3271.	1.4	10
130	GEOTAIL observations of anomalously low density plasma in the magnetosheath. <i>Geophysical Research Letters</i> , 2000, 27, 3781-3784.	4.0	10
131	Preferential acceleration of heavy ions in multi-component plasmas. <i>Geophysical Research Letters</i> , 2001, 28, 3099-3102.	4.0	10
132	Magnetosheath electrons in anomalously low density solar wind observed by Geotail. <i>Geophysical Research Letters</i> , 2000, 27, 3253-3256.	4.0	9
133	Energetic ion acceleration during magnetic reconnection in the Earth's magnetotail. <i>Earth, Planets and Space</i> , 2015, 67, .	2.5	9
134	Non-gyrotropic ions as evidence for an X-type neutral region. <i>Advances in Space Research</i> , 2000, 26, 425-430.	2.6	8
135	On the universality of nonthermal electron acceleration due to quasi-turbulent wakefields. <i>High Energy Density Physics</i> , 2012, 8, 266-270.	1.5	8
136	Ion beta dependence on the development of Alfvénic fluctuations in reconnection jets. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 1803-1813.	2.4	8
137	Mildly relativistic magnetized shocks in electron-ion plasmas – I. Electromagnetic shock structure. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 501, 4837-4849.	4.4	8
138	High-power laser experiment forming a supercritical collisionless shock in a magnetized uniform plasma at rest. <i>Physical Review E</i> , 2022, 105, 025203.	2.1	8
139	Magnetic reconnection in an anisotropic plasma: Observation and theory. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	4.0	7
140	Kinetic Ion Behavior in Magnetic Reconnection Region. <i>Geophysical Monograph Series</i> , 0, , 153-166.	0.1	7
141	Asymmetric evolution of magnetic reconnection in collisionless accretion disk. <i>Physics of Plasmas</i> , 2014, 21, .	1.9	7
142	Anomalous plasma acceleration in colliding high-power laser-produced plasmas. <i>Physics of Plasmas</i> , 2019, 26, 090702.	1.9	7
143	GEOTAIL observations of magnetic reconnection in the near-Earth magnetotail. <i>Advances in Space Research</i> , 2000, 25, 1679-1683.	2.6	6
144	Geotail Observations of the Cold Plasma Sheet on the Dusk-side Magnetotail. <i>COSPAR Colloquia Series</i> , 2005, , 28-33.	0.2	6

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145	Magnetic reconnection under anisotropic magnetohydrodynamic approximation. <i>Physics of Plasmas</i> , 2013, 20, .	1.9	6
146	Stabilization of Magnetic Reconnection in the Relativistic Current Sheet. <i>Astrophysical Journal</i> , 2020, 900, 66.	4.5	6
147	Small scale plasmoids in the post-plasmoid plasma sheet: Origin of MHD turbulence?. <i>Advances in Space Research</i> , 2000, 25, 1685-1688.	2.6	5
148	STABILITY OF COSMIC-RAY MODIFIED SHOCKS: TWO-FLUID APPROACH. <i>Astrophysical Journal</i> , 2013, 775, 130.	4.5	5
149	First-principles simulations of electrostatic interactions between dust grains. <i>Physics of Plasmas</i> , 2014, 21, 123707.	1.9	5
150	Stratified Simulations of Collisionless Accretion Disks. <i>Astrophysical Journal</i> , 2017, 842, 36.	4.5	5
151	Direct observations of pure electron outflow in magnetic reconnection. <i>Scientific Reports</i> , 2022, 12, .	3.3	5
152	The Dawn-Dusk Asymmetry in Magnetosheath and the Leakage of Energetic Electrons: The Geotail Observation. <i>COSPAR Colloquia Series</i> , 2005, , 34-37.	0.2	4
153	Electron Acceleration at Rippled Low Mach Number Shocks in Merging Galaxy Clusters. , 2019, , .		4
154	Particle Acceleration by Pickup Process Upstream of Relativistic Shocks. <i>Astrophysical Journal</i> , 2022, 924, 108.	4.5	4
155	Suprathermal electrons during magnetic reconnection: Fermi model. <i>Advances in Space Research</i> , 2002, 30, 1639-1644.	2.6	3
156	X-ray measurements of highly charged Ar ions passing through a Ni microcapillary: Coincidence of L X-rays and final charge states. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2005, 233, 103-110.	1.4	3
157	Nonthermal electron and ion acceleration by magnetic reconnection in large laser-driven plasmas. <i>Physics of Plasmas</i> , 2020, 27, 112111.	1.9	3
158	Nonlinear explosive magnetic reconnection in a collisionless system. <i>Physics of Plasmas</i> , 2021, 28, .	1.9	3
159	Preferential Energization of Lower-Charge-State Heavier Ions in the Near-Earth Magnetotail. <i>Journal of Geophysical Research: Space Physics</i> , 2022, 127, .	2.4	3
160	Efficiency of nonthermal particle acceleration in magnetic reconnection. <i>Physics of Plasmas</i> , 2022, 29, .	1.9	3
161	Formation of non-thermal, high energy particles in relativistic magnetosonic shock waves. <i>Advances in Space Research</i> , 1995, 15, 67-70.	2.6	2
162	Particle acceleration at the interplanetary shock ahead of a large magnetic cloud on October 18, 1995: GEOTAIL-WIND collaboration. <i>Advances in Space Research</i> , 1997, 20, 641-644.	2.6	2

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163	Stratified Current Sheet During Plasma Sheet Thinning. COSPAR Colloquia Series, 2005, , 108-112.	0.2	2
164	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
165	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
166	INSTABILITY OF NON-UNIFORM TOROIDAL MAGNETIC FIELDS IN ACCRETION DISKS. Astrophysical Journal, 2016, 822, 87.	4.5	2
167	Particle Acceleration in the Magnetotail and Aurora. Space Sciences Series of ISSI, 2012, , 49-102.	0.0	2
168	A New Class of Exact Solutions for 3D Compressible Reconnection Problem.. Journal of Geomagnetism and Geoelectricity, 1993, 45, 613-618.	0.9	2
169	Residue-based classification of Hadamard transforms of integer signals. , 0, , .		1
170	â€œHeart-shapedâ€œ plasmoid observed in the distant magnetotail. , 2009, , .		1
171	A Statistical Study of Slowâ€œMode Shocks Observed by MMS in the Dayside Magnetopause. Geophysical Research Letters, 2018, 45, 4675-4684.	4.0	1
172	Recent Progress in the Theory of Electron Injection in Collisionless Shocks. Thirty Years of Astronomical Discovery With UKIRT, 2012, , 143-152.	0.3	1
173	Magnetic Reconnection Beyond Ion Inertia Scale. Astrophysics and Space Science Library, 1998, , 473-478.	2.7	1
174	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
175	In-flight Performance and Initial Results of Plasma Energy Angle and Composition Experiment (PACE) on SÉLENE (Kaguya). , 2010, , 265-303.		1
176	Numerical simulation of the dayside reconnection. Geophysical Monograph Series, 1984, , 303-304.	0.1	0
177	X-ray observation of the Jovian impacts of comet Shoemaker - Levy 9. Earth, Moon and Planets, 1994, 66, 75-81.	0.6	0
178	Direct Particle Acceleration in Astropasmas. AIP Conference Proceedings, 2002, , .	0.4	0
179	Particle-Field Dynamics in the Shock Transition Region. COSPAR Colloquia Series, 2005, 16, 289-292.	0.2	0
180	New Non-Stochastic Acceleration in Multi-Component Plasmas. COSPAR Colloquia Series, 2005, 16, 261-264.	0.2	0

#	ARTICLE	IF	CITATIONS
181	Role of microscopic plasma instabilities on shock dissipation process. , 2009, , .		0
182	Effect of Shock Angle on Fast and Direct Acceleration of Electrons in High Mach Number Quasi-Perpendicular Shocks. , 2009, , .		0
183	Preface: Nonlinear waves and chaos. Nonlinear Processes in Geophysics, 2018, 25, 477-479.	1.3	0
184	The Efficiency of Coherent Radiation from Relativistic Shocks. Springer Series in Chemical Physics, 2019, , 371-383.	0.2	0
185	Statistical Study on Electron and Ion Temperatures in the Near-Earth Reconnection and Magnetic Pileup Regions. Geophysical Research Letters, 2019, 46, 14223-14229.	4.0	0
186	Relativistic Reconnection and Particle Acceleration. Space Sciences Series of ISSI, 2012, , 521-533.	0.0	0
187	RAPID EXCITATION OF HIGHER HARMONIC WAVES IN THE PARAMETRIC INSTABILITY OF ALFVÉN WAVES. , 1989, , 119-124.		0
188	Towards The Understanding of Magnetic Reconnection: Simulation and Satellite Observations. Astrophysics and Space Science Library, 1999, , 311-318.	2.7	0
189	Theory and Modeling for the Magnetospheric Multiscale Mission. , 2017, , 575-628.		0
190	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
191	Frontier in Astrophysical Plasma by Using Laser Experiments. Springer Series in Chemical Physics, 2017, , 25-33.	0.2	0
192	Magnetoluminescence. Space Sciences Series of ISSI, 2017, , 291-317.	0.0	0
193	Global characteristics of cold protons around midnight in the magnetotail: Implication for efficient heating and origin. Journal of Geophysical Research: Space Physics, 0, , .	2.4	0