

Michael Hesse

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

168
papers

9,024
citations

51
h-index

91
g-index

177
ext. papers

9,812
ext. citations

4
avg, IF

6.04
L-index

#	Paper	IF	Citations
168	Whistler waves generated by nongyrotropic and gyrotropic electron beams during asymmetric guide field reconnection. <i>Physics of Plasmas</i> , 2022 , 29, 012903	2.1	4
167	Millisecond observations of nonlinear wave-electron interaction in electron phase space holes. <i>Physics of Plasmas</i> , 2022 , 29, 012309	2.1	2
166	Strong reconnection electric fields in shock-driven turbulence. <i>Physics of Plasmas</i> , 2022 , 29, 042304	2.1	3
165	The EDR inflow region of a reconnecting current sheet in the geomagnetic tail. <i>Physics of Plasmas</i> , 2022 , 29, 052903	2.1	1
164	Magnetic Reconnection in a Sheared Magnetic Flux Tube: Slippage Versus Tearing. <i>Journal of Geophysical Research: Space Physics</i> , 2021 , 126, e2021JA029236	2.6	
163	Impacts of Ionospheric Ions on Magnetic Reconnection and Earth's Magnetosphere Dynamics. <i>Reviews of Geophysics</i> , 2021 , 59, e2020RG000707	23.1	8
162	Lower-hybrid drift waves and their interaction with plasmas in a 3D symmetric reconnection simulation with zero guide field. <i>Physics of Plasmas</i> , 2021 , 28, 072102	2.1	5
161	The Micro-Macro Coupling of Mass-Loading in Symmetric Magnetic Reconnection With Cold Ions. <i>Geophysical Research Letters</i> , 2021 , 48, e2020GL090690	4.9	1
160	A New Look at the Electron Diffusion Region in Asymmetric Magnetic Reconnection. <i>Journal of Geophysical Research: Space Physics</i> , 2021 , 126, e2020JA028456	2.6	3
159	Acceleration of Oxygen Ions In Dipolarization Events: 2. PSBL Distributions. <i>Journal of Geophysical Research: Space Physics</i> , 2021 , 126, e2021JA029143	2.6	1
158	Acceleration of Oxygen Ions in Dipolarization Events: 1. CPS Distributions. <i>Journal of Geophysical Research: Space Physics</i> , 2021 , 126, e2021JA029184	2.6	1
157	Magnetospheric Multiscale Observations of an Expanding Oxygen Wave in Magnetic Reconnection. <i>Geophysical Research Letters</i> , 2021 , 48, e2021GL095065	4.9	
156	On the Presence and Thermalization of Cold Ions in the Exhaust of Antiparallel Symmetric Reconnection. <i>Frontiers in Astronomy and Space Sciences</i> , 2021 , 8,	3.8	2
155	Scaling of Magnetic Reconnection With a Limited X-Line Extent. <i>Geophysical Research Letters</i> , 2020 , 47, e2020GL088147	4.9	6
154	The Critical Role of Collisionless Plasma Energization on the Structure of Relativistic Magnetic Reconnection. <i>Astrophysical Journal Letters</i> , 2020 , 892, L13	7.9	8
153	Outstanding questions in magnetospheric plasma physics: The pollenzo view. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2020 , 208, 105377	2	9
152	Lower-Hybrid Drift Waves Driving Electron Nongyrotropic Heating and Vortical Flows in a Magnetic Reconnection Layer. <i>Physical Review Letters</i> , 2020 , 125, 025103	7.4	13

151	Magnetic Reconnection in the Space Sciences: Past, Present, and Future. <i>Journal of Geophysical Research: Space Physics</i> , 2020 , 125, e2018JA025935	2.6	31
150	Collisionless Magnetic Reconnection in an Asymmetric Oxygen Density Configuration. <i>Geophysical Research Letters</i> , 2020 , 47, e2019GL085359	4.9	9
149	Three-Dimensional X-line Spreading in Asymmetric Magnetic Reconnection. <i>Journal of Geophysical Research: Space Physics</i> , 2020 , 125, e2019JA027094	2.6	10
148	Interaction of Cold Streaming Protons with the Reconnection Process. <i>Journal of Geophysical Research: Space Physics</i> , 2020 , 125, e2019JA027619	2.6	6
147	Electron Acceleration and Thermalization at Magnetotail Separatrices. <i>Journal of Geophysical Research: Space Physics</i> , 2020 , 125, e2019JA027440	2.6	12
146	AME: A Cross-Scale Constellation of CubeSats to Explore Magnetic Reconnection in the Solar-Terrestrial Relation. <i>Frontiers in Physics</i> , 2020 , 8,	3.9	5
145	Particle Acceleration in Strong Turbulence in the Earth's Magnetotail. <i>Astrophysical Journal</i> , 2020 , 898, 153	4.7	8
144	Ion-scale Current Structures in Short Large-amplitude Magnetic Structures. <i>Astrophysical Journal</i> , 2020 , 898, 121	4.7	5
143	Substorm Current Wedge: Energy Conversion and Current Diversion. <i>Journal of Geophysical Research: Space Physics</i> , 2020 , 125, e2020JA028073	2.6	1
142	On the Impact of a Streaming Oxygen Population on Collisionless Magnetic Reconnection. <i>Geophysical Research Letters</i> , 2020 , 47, e2020GL089462	4.9	2
141	Magnetic reconnection and kinetic waves generated in the Earth's quasi-parallel bow shock. <i>Physics of Plasmas</i> , 2020 , 27, 092901	2.1	9
140	Electron Inflow Velocities and Reconnection Rates at Earth's Magnetopause and Magnetosheath. <i>Geophysical Research Letters</i> , 2020 , 47, e2020GL089082	4.9	11
139	Effects of the guide field on electron distribution functions in the diffusion region of asymmetric reconnection. <i>Physics of Plasmas</i> , 2019 , 26, 082310	2.1	6
138	Observational Evidence of Magnetic Reconnection in the Terrestrial Bow Shock Transition Region. <i>Geophysical Research Letters</i> , 2019 , 46, 562-570	4.9	28
137	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	2.6	25
136	The Impact of Oxygen on the Reconnection Rate. <i>Geophysical Research Letters</i> , 2019 , 46, 6195-6203	4.9	18
135	Mass Loading the Earth's Dayside Magnetopause Boundary Layer and Its Effect on Magnetic Reconnection. <i>Geophysical Research Letters</i> , 2019 , 46, 6204-6213	4.9	17
134	Electron Diffusion Regions in Magnetotail Reconnection Under Varying Guide Fields. <i>Geophysical Research Letters</i> , 2019 , 46, 6230-6238	4.9	20

133	Three-Dimensional Magnetic Reconnection With a Spatially Confined X-Line Extent: Implications for Dipolarizing Flux Bundles and the Dawn-Dusk Asymmetry. <i>Journal of Geophysical Research: Space Physics</i> , 2019 , 124, 2819-2830	2.6	24
132	Ion Behaviors in the Reconnection Diffusion Region of a Corrugated Magnetotail Current Sheet. <i>Geophysical Research Letters</i> , 2019 , 46, 5014-5020	4.9	2
131	Magnetic Reconnection in a Quasi-Parallel Shock: Two-Dimensional Local Particle-in-Cell Simulation. <i>Geophysical Research Letters</i> , 2019 , 46, 9352-9361	4.9	23
130	High-density O ⁺ in Earth's outer magnetosphere and its effect on dayside magnetopause magnetic reconnection. <i>Journal of Geophysical Research: Space Physics</i> , 2019 , 124, 10257-10269	2.6	10
129	Magnetic Reconnection in Three Dimensions: Modeling and Analysis of Electromagnetic Drift Waves in the Adjacent Current Sheet. <i>Journal of Geophysical Research: Space Physics</i> , 2019 , 124, 10085-10103	2.6	11
128	The physical foundation of the reconnection electric field. <i>Physics of Plasmas</i> , 2018 , 25, 032901	2.1	15
127	Magnetic Reconnection, Turbulence, and Particle Acceleration: Observations in the Earth's Magnetotail. <i>Geophysical Research Letters</i> , 2018 , 45, 3338-3347	4.9	40
126	MMS Observation of Asymmetric Reconnection Supported by 3-D Electron Pressure Divergence. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 1806	2.6	24
125	How the IMF By Induces a Local By Component During Northward IMF Bz and Characteristic Timescales. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 3333-3348	2.6	17
124	Localized Oscillatory Energy Conversion in Magnetopause Reconnection. <i>Geophysical Research Letters</i> , 2018 , 45, 1237-1245	4.9	31
123	On the Collisionless Asymmetric Magnetic Reconnection Rate. <i>Geophysical Research Letters</i> , 2018 , 45, 3311-3318	4.9	13
122	Strongly localized magnetic reconnection by the super-Alfvénic shear flow. <i>Physics of Plasmas</i> , 2018 , 25,	2.1	12
121	Orientation and Stability of Asymmetric Magnetic Reconnection X Line. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 4908-4920	2.6	8
120	Electron Reconnection in the Magnetopause Current Layer. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 9222-9238	2.6	8
119	Estimating the Rate of Cessation of Magnetospheric Activity in AMPERE Field-Aligned Currents. <i>Geophysical Research Letters</i> , 2018 , 45, 12,713	4.9	1
118	The asymmetric geospace as displayed during the geomagnetic storm on 17 August 2001. <i>Annales Geophysicae</i> , 2018 , 36, 1577-1596	2	12
117	Effect of the Reconnection Electric Field on Electron Distribution Functions in the Diffusion Region of Magnetotail Reconnection. <i>Geophysical Research Letters</i> , 2018 , 45, 12,142	4.9	11
116	Electron-scale dynamics of the diffusion region during symmetric magnetic reconnection in space. <i>Science</i> , 2018 , 362, 1391-1395	33.3	139

115	The Formation of an Oxygen Wave by Magnetic Reconnection. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 9370-9380	2.6	11
114	On the role of separatrix instabilities in heating the reconnection outflow region. <i>Physics of Plasmas</i> , 2018 , 25, 122902	2.1	23
113	The two-fluid dynamics and energetics of the asymmetric magnetic reconnection in laboratory and space plasmas. <i>Nature Communications</i> , 2018 , 9, 5223	17.4	12
112	Energy Conversion and Partition in the Asymmetric Reconnection Diffusion Region. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 8185-8205	2.6	9
111	Measurement of the Magnetic Reconnection Rate in the Earth's Magnetotail. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 9150-9168	2.6	31
110	Why does Steady-State Magnetic Reconnection have a Maximum Local Rate of Order 0.1?. <i>Physical Review Letters</i> , 2017 , 118, 085101	7.4	83
109	Electron diffusion region during magnetopause reconnection with an intermediate guide field: Magnetospheric multiscale observations. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 5235-5246	2.6	41
108	Parallel electron heating in the magnetospheric inflow region. <i>Geophysical Research Letters</i> , 2017 , 44, 4384-4392	4.9	8
107	Drift waves, intense parallel electric fields, and turbulence associated with asymmetric magnetic reconnection at the magnetopause. <i>Geophysical Research Letters</i> , 2017 , 44, 2978-2986	4.9	35
106	The effect of reconnection electric field on crescent and U-shaped distribution functions in asymmetric reconnection with no guide field. <i>Physics of Plasmas</i> , 2017 , 24, 072903	2.1	16
105	The Scientific Foundations of Forecasting Magnetospheric Space Weather. <i>Space Science Reviews</i> , 2017 , 212, 1221-1252	7.5	26
104	Population Mixing in Asymmetric Magnetic Reconnection with a Guide Field. <i>Physical Review Letters</i> , 2017 , 118, 145101	7.4	11
103	Tail reconnection in the global magnetospheric context: Vlasiator first results. <i>Annales Geophysicae</i> , 2017 , 35, 1269-1274	2	20
102	Theory and Modeling for the Magnetospheric Multiscale Mission 2017 , 575-628		
101	The Scientific Foundations of Forecasting Magnetospheric Space Weather. <i>Space Sciences Series of ISSI</i> , 2017 , 339-370	0.1	0
100	Ion demagnetization in the magnetopause current layer observed by MMS. <i>Geophysical Research Letters</i> , 2016 , 43, 4850-4857	4.9	10
99	Orientation of the X-line in asymmetric magnetic reconnection. <i>Journal of Plasma Physics</i> , 2016 , 82,	2.7	3
98	Magnetospheric Multiscale Satellites Observations of Parallel Electric Fields Associated with Magnetic Reconnection. <i>Physical Review Letters</i> , 2016 , 116, 235102	7.4	50

97	Magnetospheric Multiscale Observations of the Electron Diffusion Region of Large Guide Field Magnetic Reconnection. <i>Physical Review Letters</i> , 2016 , 117, 015001	7.4	60
96	Electron energization and mixing observed by MMS in the vicinity of an electron diffusion region during magnetopause reconnection. <i>Geophysical Research Letters</i> , 2016 , 43, 6036-6043	4.9	55
95	Full particle-in-cell simulations of kinetic equilibria and the role of the initial current sheet on steady asymmetric magnetic reconnection. <i>Journal of Plasma Physics</i> , 2016 , 82,	2.7	5
94	Magnetospheric Multiscale observations of large-amplitude, parallel, electrostatic waves associated with magnetic reconnection at the magnetopause. <i>Geophysical Research Letters</i> , 2016 , 43, 5626-5634	4.9	49
93	Theory and Modeling for the Magnetospheric Multiscale Mission. <i>Space Science Reviews</i> , 2016 , 199, 577-630	6.3	42
92	Electron distribution functions in the diffusion region of asymmetric magnetic reconnection. <i>Geophysical Research Letters</i> , 2016 , 43, 1828-1836	4.9	62
91	Suppression of collisionless magnetic reconnection in asymmetric current sheets. <i>Physics of Plasmas</i> , 2016 , 23, 060704	2.1	14
90	Electron energization and structure of the diffusion region during asymmetric reconnection. <i>Geophysical Research Letters</i> , 2016 , 43, 2405-2412	4.9	53
89	Particle-in-cell simulations of collisionless magnetic reconnection with a non-uniform guide field. <i>Physics of Plasmas</i> , 2016 , 23, 032302	2.1	17
88	Two-scale ion meandering caused by the polarization electric field during asymmetric reconnection. <i>Geophysical Research Letters</i> , 2016 , 43, 7831-7839	4.9	13
87	Electron-scale measurements of magnetic reconnection in space. <i>Science</i> , 2016 , 352, aaf2939	33.3	418
86	On the electron diffusion region in asymmetric reconnection with a guide magnetic field. <i>Geophysical Research Letters</i> , 2016 , 43, 2359-2364	4.9	41
85	Spatiotemporal evolution of electron characteristics in the electron diffusion region of magnetic reconnection: Implications for acceleration and heating. <i>Geophysical Research Letters</i> , 2015 , 42, 2586-2593	4.9	49
84	Ion beams in the plasma sheet boundary layer. <i>Journal of Geophysical Research: Space Physics</i> , 2015 , 120, 7522-7535	2.6	15
83	Energetic ions in dipolarization events. <i>Journal of Geophysical Research: Space Physics</i> , 2015 , 120, 7698-7717	2.1	39
82	Reconnection and interchange instability in the near magnetotail. <i>Earth, Planets and Space</i> , 2015 , 67,	2.9	5
81	Orientation of X lines in asymmetric magnetic reconnection: Mass ratio dependency. <i>Journal of Geophysical Research: Space Physics</i> , 2015 , 120, 7331-7341	2.6	18
80	Magnetic Reconnection in Different Environments. <i>Geophysical Monograph Series</i> , 2015 , 259-267	1.1	

79	The substorm current wedge: Further insights from MHD simulations. <i>Journal of Geophysical Research: Space Physics</i> , 2014 , 119, 3503-3513	2.6	57
78	Onset of reconnection in the near magnetotail: PIC simulations. <i>Journal of Geophysical Research: Space Physics</i> , 2014 , 119, 9773-9789	2.6	55
77	On the electron diffusion region in planar, asymmetric, systems. <i>Geophysical Research Letters</i> , 2014 , 41, 8673-8680	4.9	109
76	Forced reconnection in the near magnetotail: Onset and energy conversion in PIC and MHD simulations. <i>Journal of Geophysical Research: Space Physics</i> , 2014 , 119, 290-309	2.6	41
75	Electron nongyrotropy in the context of collisionless magnetic reconnection. <i>Physics of Plasmas</i> , 2013 , 20, 092903	2.1	55
74	Comparison between hybrid and fully kinetic models of asymmetric magnetic reconnection: Coplanar and guide field configurations. <i>Physics of Plasmas</i> , 2013 , 20, 022902	2.1	22
73	Particle acceleration in dipolarization events. <i>Journal of Geophysical Research: Space Physics</i> , 2013 , 118, 1960-1971	2.6	125
72	Aspects of collisionless magnetic reconnection in asymmetric systems. <i>Physics of Plasmas</i> , 2013 , 20, 061210		48
71	The substorm current wedge in MHD simulations. <i>Journal of Geophysical Research: Space Physics</i> , 2013 , 118, 3364-3376	2.6	77
70	Influence of the dissipation mechanism on collisionless magnetic reconnection in symmetric and asymmetric current layers. <i>Physics of Plasmas</i> , 2013 , 20, 042901	2.1	8
69	Test of Shi et al. method to infer the magnetic reconnection geometry from spacecraft data: MHD simulation with guide field and antiparallel kinetic simulation. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		16
68	The role of compressibility in energy release by magnetic reconnection. <i>Physics of Plasmas</i> , 2012 , 19, 082109	2.1	17
67	New measure of the dissipation region in collisionless magnetic reconnection. <i>Physical Review Letters</i> , 2011 , 106, 195003	7.4	159
66	Bursty bulk flows and dipolarization in MHD simulations of magnetotail reconnection. <i>Journal of Geophysical Research</i> , 2011 , 116, n/a-n/a		199
65	Magnetic reconnection in a compressible MHD plasma. <i>Physics of Plasmas</i> , 2011 , 18, 042104	2.1	12
64	The Diffusion Region in Collisionless Magnetic Reconnection. <i>Space Science Reviews</i> , 2011 , 160, 3-23	7.5	105
63	Energy release and transfer in guide field reconnection. <i>Physics of Plasmas</i> , 2010 , 17, 012109	2.1	33
62	Scaling of asymmetric reconnection in compressible plasmas. <i>Physics of Plasmas</i> , 2010 , 17, 052108	2.1	52

61	Test of methods to infer the magnetic reconnection geometry from spacecraft data. <i>Journal of Geophysical Research</i> , 2010 , 115, n/a-n/a		19
60	Reconnection in substorms and solar flares: analogies and differences. <i>Annales Geophysicae</i> , 2009 , 27, 1067-1078	2	23
59	A simple, analytical model of collisionless magnetic reconnection in a pair plasma. <i>Physics of Plasmas</i> , 2009 , 16, 102106	2.1	19
58	TWO-FLUID MAGNETOHYDRODYNAMIC SIMULATIONS OF RELATIVISTIC MAGNETIC RECONNECTION. <i>Astrophysical Journal</i> , 2009 , 696, 1385-1401	4.7	67
57	The structure of the electron outflow jet in collisionless magnetic reconnection. <i>Physics of Plasmas</i> , 2008 , 15, 112102	2.1	46
56	Formation of thin bifurcated current sheets by quasisteady compression. <i>Physics of Plasmas</i> , 2008 , 15, 042902	2.1	18
55	Particle-in-cell simulation of collisionless reconnection with open outflow boundaries. <i>Physics of Plasmas</i> , 2008 , 15, 082102	2.1	49
54	Properties of asymmetric magnetic reconnection. <i>Physics of Plasmas</i> , 2008 , 15, 032101	2.1	69
53	Multi-point observations of the Hall electromagnetic field and secondary island formation during magnetic reconnection. <i>Journal of Geophysical Research</i> , 2007 , 112, n/a-n/a		115
52	Multiscale modeling of magnetospheric reconnection. <i>Journal of Geophysical Research</i> , 2007 , 112, n/a-n/a		64
51	Dissipation in relativistic pair-plasma reconnection. <i>Physics of Plasmas</i> , 2007 , 14, 112102	2.1	41
50	Reconnection rates in driven magnetic reconnection. <i>Physics of Plasmas</i> , 2007 , 14, 082306	2.1	21
49	The reconnection of magnetic fields between plasmas with different densities: Scaling relations. <i>Physics of Plasmas</i> , 2007 , 14, 102309	2.1	62
48	Dissipation in magnetic reconnection with a guide magnetic field. <i>Physics of Plasmas</i> , 2006 , 13, 122107	2.1	47
47	Cluster observations of an intense normal component of the electric field at a thin reconnecting current sheet in the tail and its role in the shock-like acceleration of the ion fluid into the separatrix region. <i>Journal of Geophysical Research</i> , 2005 , 110,		222
46	Cluster observations of traveling compression regions in the near-tail. <i>Journal of Geophysical Research</i> , 2005 , 110,		66
45	On the Relation between Reconnected Magnetic Flux and Parallel Electric Fields in the Solar Corona. <i>Astrophysical Journal</i> , 2005 , 631, 1227-1238	4.7	60
44	Three-dimensional modeling of electron quasiviscous dissipation in guide-field magnetic reconnection. <i>Physics of Plasmas</i> , 2005 , 12, 100704	2.1	23

43	Energy release and conversion by reconnection in the magnetotail. <i>Annales Geophysicae</i> , 2005 , 23, 3365-3373		79
42	On the propagation of bubbles in the geomagnetic tail. <i>Annales Geophysicae</i> , 2004 , 22, 1773-1786	2	188
41	On the cessation of magnetic reconnection. <i>Annales Geophysicae</i> , 2004 , 22, 603-612	2	27
40	Acceleration of oxygen ions in the dynamic magnetotail. <i>Annales Geophysicae</i> , 2004 , 22, 1305-1315	2	17
39	The role of electron heat flux in guide-field magnetic reconnection. <i>Physics of Plasmas</i> , 2004 , 11, 5387-5397	2.1	74
38	Electron acceleration in the dynamic magnetotail: Test particle orbits in three-dimensional magnetohydrodynamic simulation fields. <i>Physics of Plasmas</i> , 2004 , 11, 1825-1833	2.1	79
37	A new look at driven magnetic reconnection at the terrestrial subsolar magnetopause. <i>Journal of Geophysical Research</i> , 2004 , 109,		25
36	Geotail observations of magnetic flux ropes in the plasma sheet. <i>Journal of Geophysical Research</i> , 2003 , 108, SMP 10-1		237
35	Computing magnetospheric force equilibria. <i>Journal of Geophysical Research</i> , 2003 , 108,		45
34	Simultaneous observations of earthward flow bursts and plasmoid ejection during magnetospheric substorms. <i>Journal of Geophysical Research</i> , 2002 , 107, SMP 13-1		56
33	The structure of the dissipation region for component reconnection: Particle simulations. <i>Geophysical Research Letters</i> , 2002 , 29, 4-1	4.9	83
32	Magnetospheric signature of an ionospheric traveling convection vortex event. <i>Journal of Geophysical Research</i> , 2002 , 107, SMP 5-1		15
31	Geospace Environmental Modeling (GEM) Magnetic Reconnection Challenge. <i>Journal of Geophysical Research</i> , 2001 , 106, 3715-3719		970
30	Collisionless magnetic reconnection: Electron processes and transport modeling. <i>Journal of Geophysical Research</i> , 2001 , 106, 3721-3735		159
29	Collisionless reconnection supported by nongyrotropic pressure effects in hybrid and particle simulations. <i>Journal of Geophysical Research</i> , 2001 , 106, 3799-3810		92
28	Particle-in-cell simulations of three-dimensional collisionless magnetic reconnection. <i>Journal of Geophysical Research</i> , 2001 , 106, 29831-29841		61
27	The onset of magnetic reconnection in the magnetotail. <i>Earth, Planets and Space</i> , 2001 , 53, 645-653	2.9	48
26	Magnetosphere-Ionosphere Interactions: A Tutorial Review. <i>Geophysical Monograph Series</i> , 2000 , 91-106	1.1	124

25	Near- and Mid-Tail Current Flow During Substorms: Small- and Large-Scale Aspects of Current Disruption. <i>Geophysical Monograph Series</i> , 2000 , 295-303	1.1	16
24	The diffusion region in collisionless magnetic reconnection. <i>Physics of Plasmas</i> , 1999 , 6, 1781-1795	2.1	337
23	Dual spacecraft observations of lobe magnetic field perturbations before, during and after plasmoid release. <i>Geophysical Research Letters</i> , 1999 , 26, 2897-2900	4.9	22
22	Substorm electron injections: Geosynchronous observations and test particle simulations. <i>Journal of Geophysical Research</i> , 1998 , 103, 9235-9248		147
21	Kinetic quasi-viscous and bulk flow inertia effects in collisionless magnetotail reconnection. <i>Journal of Geophysical Research</i> , 1998 , 103, 199-213		97
20	Electron dissipation in collisionless magnetic reconnection. <i>Journal of Geophysical Research</i> , 1998 , 103, 26479-26486		90
19	On the ion-scale structure of thin current sheets in the magnetotail. <i>Physica Scripta</i> , 1998 , T74, 63-66	2.6	36
18	Substorm ion injections: Geosynchronous observations and test particle orbits in three-dimensional dynamic MHD fields. <i>Journal of Geophysical Research</i> , 1997 , 102, 2325-2341		128
17	MHD simulations of the transition of magnetic reconnection from closed to open field lines. <i>Journal of Geophysical Research</i> , 1996 , 101, 10805-10816		31
16	A simple model of core field generation during plasmoid evolution. <i>Journal of Geophysical Research</i> , 1996 , 101, 10797-10804		28
15	Details of current disruption and diversion in simulations of magnetotail dynamics. <i>Journal of Geophysical Research</i> , 1996 , 101, 15345-15358		132
14	Analysis of Magnetotail Flux Ropes with Strong Core Fields: ISEE 3 Observations. <i>Journal of Geomagnetism and Geoelectricity</i> , 1996 , 48, 589-601		19
13	Three-dimensional magnetic reconnection and the magnetic topology of coronal mass ejection events. <i>Geophysical Research Letters</i> , 1995 , 22, 869-872	4.9	224
12	ISEE 3 observations of plasmoids with flux rope magnetic topologies. <i>Geophysical Research Letters</i> , 1995 , 22, 2061-2064	4.9	58
11	Hybrid modeling of collisionless reconnection in two-dimensional current sheets: Simulations. <i>Journal of Geophysical Research</i> , 1995 , 100, 21815-21825		37
10	Particle acceleration in the dynamic magnetotail: Orbits in self-consistent three-dimensional MHD fields. <i>Journal of Geophysical Research</i> , 1994 , 99, 109		54
9	Evolution of the plasmoid-lobe interaction with downtail distance. <i>Geophysical Research Letters</i> , 1994 , 21, 2765-2768	4.9	11
8	Hybrid simulations of collisionless reconnection in current sheets. <i>Journal of Geophysical Research</i> , 1994 , 99, 11177		74

7	Three-dimensional magnetotail equilibria by numerical relaxation techniques. <i>Journal of Geophysical Research</i> , 1993 , 98, 3973-3982		53
6	Hybrid simulations of collisionless ion tearing. <i>Geophysical Research Letters</i> , 1993 , 20, 1207-1210	4.9	47
5	The substorm current wedge and field-aligned currents in MHD simulations of magnetotail reconnection. <i>Journal of Geophysical Research</i> , 1991 , 96, 1611-1618		126
4	Magnetosphere-ionosphere coupling during plasmoid evolution: First results. <i>Journal of Geophysical Research</i> , 1991 , 96, 11513		17
3	General magnetic reconnection, parallel electric fields, and helicity. <i>Journal of Geophysical Research</i> , 1988 , 93, 5547		337
2	A theoretical foundation of general magnetic reconnection. <i>Journal of Geophysical Research</i> , 1988 , 93, 5559		260
1	Parker Solar Probe observations of solar wind energetic proton beams produced by magnetic reconnection in the near-Sun heliospheric current sheet. <i>Geophysical Research Letters</i> ,	4.9	0