

Tai Phan

List of Publications by Year in descending order

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194
papers

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citations

14644

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203
times ranked

3498
citing authors

#	ARTICLE	IF	CITATIONS
1	Turbulence-driven magnetic reconnection and the magnetic correlation length: Observations from Magnetospheric Multiscale in Earth's magnetosheath. <i>Physics of Plasmas</i> , 2022, 29, .	0.7	30
2	Flux Rope Merging and the Structure of Switchbacks in the Solar Wind. <i>Astrophysical Journal</i> , 2022, 925, 213.	1.6	11
3	PSP/IS TM IS Observation of a Solar Energetic Particle Event Associated with a Streamer Blowout Coronal Mass Ejection during Encounter 6. <i>Astrophysical Journal</i> , 2022, 925, 212.	1.6	3
4	A Systematic Look at the Temperature Gradient Contribution to the Dayside Magnetopause Current. <i>Geophysical Research Letters</i> , 2022, 49, .	1.5	2
5	Kinetic-scale Current Sheets in the Solar Wind at 1 au: Scale-dependent Properties and Critical Current Density. <i>Astrophysical Journal Letters</i> , 2022, 926, L19.	3.0	14
6	Suprathermal Ion Energy Spectra and Anisotropies near the Heliospheric Current Sheet Crossing Observed by the Parker Solar Probe during Encounter 7. <i>Astrophysical Journal</i> , 2022, 927, 62.	1.6	3
7	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> , 2022, 49, .	1.5	15
8	Kinetic-scale Current Sheets in Near-Sun Solar Wind: Properties, Scale-dependent Features and Reconnection Onset. <i>Astrophysical Journal</i> , 2022, 929, 58.	1.6	7
9	Electron energization and thermal to non-thermal energy partition during earth's magnetotail reconnection. <i>Physics of Plasmas</i> , 2022, 29, .	0.7	7
10	Magnetic Field Annihilation in a Magnetotail Electron Diffusion Region With Electron-Scale Magnetic Island. <i>Journal of Geophysical Research: Space Physics</i> , 2022, 127, .	0.8	6
11	Electron Trapping in Magnetic Mirror Structures at the Edge of Magnetopause Flux Ropes. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2021JA029182.	0.8	3
12	A Quarter Century of Wind Spacecraft Discoveries. <i>Reviews of Geophysics</i> , 2021, 59, e2020RG000714.	9.0	52
13	Magnetic increases with central current sheets: observations with Parker Solar Probe. <i>Astronomy and Astrophysics</i> , 2021, 650, A11.	2.1	8
14	Prevalence of magnetic reconnection in the near-Sun heliospheric current sheet. <i>Astronomy and Astrophysics</i> , 2021, 650, A13.	2.1	23
15	Fast Cross-Scale Energy Transfer During Turbulent Magnetic Reconnection. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL093524.	1.5	13
16	Solar Orbiter observations of an ion-scale flux rope confined to a bifurcated solar wind current sheet. <i>Astronomy and Astrophysics</i> , 2021, 656, A27.	2.1	6
17	Anomalous Reconnection Layer at Earth's Dayside Magnetopause. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2021JA029678.	0.8	1
18	Characteristic Scales of Magnetic Switchback Patches Near the Sun and Their Possible Association With Solar Supergranulation and Granulation. <i>Astrophysical Journal</i> , 2021, 919, 96.	1.6	50

#	ARTICLE	IF	CITATIONS
19	Faster Form of Electron Magnetic Reconnection with a Finite Length X-Line. <i>Physical Review Letters</i> , 2021, 127, 155101.	2.9	13
20	Magnetic reconnection as a mechanism to produce multiple thermal proton populations and beams locally in the solar wind. <i>Astronomy and Astrophysics</i> , 2021, 656, A37.	2.1	12
21	Solar wind α -magnetosphere coupling during radial interplanetary magnetic field conditions: simultaneous multi-point observations. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2021JA029506.	0.8	1
22	Spatial evolution of magnetic reconnection diffusion region structures with distance from the X-line. <i>Physics of Plasmas</i> , 2021, 28, .	0.7	3
23	A Solar Source of Alfvénic Magnetic Field Switchbacks: In Situ Remnants of Magnetic Funnel on Supergranulation Scales. <i>Astrophysical Journal</i> , 2021, 923, 174.	1.6	67
24	Kinetic-scale Current Sheets in the Solar Wind at 1 au: Properties and the Necessary Condition for Reconnection. <i>Astrophysical Journal Letters</i> , 2021, 923, L19.	3.0	10
25	Multiscale Coupling During Magnetopause Reconnection: Interface Between the Electron and Ion Diffusion Regions. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2020JA027985.	0.8	10
26	MMS SITL Ground Loop: Automating the Burst Data Selection Process. <i>Frontiers in Astronomy and Space Sciences</i> , 2020, 7, 54.	1.1	16
27	Electron Inflow Velocities and Reconnection Rates at Earth's Magnetopause and Magnetosheath. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL089082.	1.5	23
28	Comparison of Quality Measures for Walén Relation. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2020JA028044.	0.8	3
29	The Heliospheric Current Sheet and Plasma Sheet during Parker Solar Probe's First Orbit. <i>Astrophysical Journal Letters</i> , 2020, 894, L19.	3.0	39
30	Solar Wind Reconnection Exhausts in the Inner Heliosphere Observed by Helios and Detected via Machine Learning. <i>Astrophysical Journal</i> , 2020, 895, 68.	1.6	4
31	On the Ubiquity of Magnetic Reconnection Inside Flux Transfer Event-Like Structures at the Earth's Magnetopause. <i>Geophysical Research Letters</i> , 2020, 47, e2019GL086726.	1.5	20
32	Latitudinal Dependence of the Kelvin-Helmholtz Instability and Beta Dependence of Vortex-Induced High-Guide Field Magnetic Reconnection. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA027333.	0.8	7
33	The Heliospheric Current Sheet in the Inner Heliosphere Observed by the Parker Solar Probe. <i>Astrophysical Journal, Supplement Series</i> , 2020, 246, 47.	3.0	50
34	Statistics of Reconnecting Current Sheets in the Transition Region of Earth's Bow Shock. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA027119.	0.8	32
35	Parker Solar Probe In Situ Observations of Magnetic Reconnection Exhausts during Encounter 1. <i>Astrophysical Journal, Supplement Series</i> , 2020, 246, 34.	3.0	65
36	Characteristics of the Flank Magnetopause: MMS Results. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA027623.	0.8	24

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37	Magnetic Reconnection Inside a Flux Transfer Eventâ€Like Structure in Magnetopause Kelvinâ€Helmholtz Waves. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027527.	0.8	10
38	Energy Flux Densities near the Electron Dissipation Region in Asymmetric Magnetopause Reconnection. Physical Review Letters, 2020, 125, 265102.	2.9	17
39	Sharp AlfvÃ©nic Impulses in the Near-Sun Solar Wind. Astrophysical Journal, Supplement Series, 2020, 246, 45.	3.0	115
40	Energy Conversion and Electron Acceleration in the Magnetopause Reconnection Diffusion Region. Geophysical Research Letters, 2019, 46, 10274-10282.	1.5	10
41	Fourâ€Spacecraft Measurements of the Shape and Dimensionality of Magnetic Structures in the Nearâ€Earth Plasma Environment. Journal of Geophysical Research: Space Physics, 2019, 124, 6850-6868.	0.8	7
42	Transition from ion-coupled to electron-only reconnection: Basic physics and implications for plasma turbulence. Physics of Plasmas, 2019, 26, .	0.7	61
43	Reconnection With Magnetic Flux Pileup at the Interface of Converging Jets at the Magnetopause. Geophysical Research Letters, 2019, 46, 1937-1946.	1.5	36
44	Properties of the Turbulence Associated with Electron-only Magnetic Reconnection in Earthâ€™s Magnetosheath. Astrophysical Journal Letters, 2019, 877, L37.	3.0	80
45	The Space Physics Environment Data Analysis System (SPEDAS). Space Science Reviews, 2019, 215, 9.	3.7	332
46	Observations of Magnetic Reconnection in the Transition Region of Quasiâ€Parallel Shocks. Geophysical Research Letters, 2019, 46, 1177-1184.	1.5	51
47	Reconstruction of the Electron Diffusion Region of Magnetotail Reconnection Seen by the MMS Spacecraft on 11 July 2017. Journal of Geophysical Research: Space Physics, 2019, 124, 122-138.	0.8	25
48	The physical foundation of the reconnection electric field. Physics of Plasmas, 2018, 25, .	0.7	20
49	Largeâ€Scale Survey of the Structure of the Dayside Magnetopause by MMS. Journal of Geophysical Research: Space Physics, 2018, 123, 2018-2033.	0.8	27
50	Determining $\langle L \rangle$ and $\langle M \rangle$ Current Sheet Coordinates at the Magnetopause From Magnetospheric Multiscale Data. Journal of Geophysical Research: Space Physics, 2018, 123, 2274-2295.	0.8	38
51	Magnetic Reconnection, Turbulence, and Particle Acceleration: Observations in the Earth's Magnetotail. Geophysical Research Letters, 2018, 45, 3338-3347.	1.5	69
52	In Situ Observations of a Magnetosheath Highâ€Speed Jet Triggering Magnetopause Reconnection. Geophysical Research Letters, 2018, 45, 1732-1740.	1.5	66
53	MMS Observation of Asymmetric Reconnection Supported by 3â€ Electron Pressure Divergence. Journal of Geophysical Research: Space Physics, 2018, 123, 1806-1821.	0.8	34
54	Guide Field Reconnection: Exhaust Structure and Heating. Geophysical Research Letters, 2018, 45, 4569-4577.	1.5	34

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55	Localized Oscillatory Energy Conversion in Magnetopause Reconnection. Geophysical Research Letters, 2018, 45, 1237-1245.	1.5	41
56	Wave Phenomena and Beam-Plasma Interactions at the Magnetopause Reconnection Region. Journal of Geophysical Research: Space Physics, 2018, 123, 1118-1133.	0.8	19
57	Magnetic Reconnection at a Thin Current Sheet Separating Two Interlaced Flux Tubes at the Earth's Magnetopause. Journal of Geophysical Research: Space Physics, 2018, 123, 1779-1793.	0.8	35
58	Magnetospheric Multiscale Dayside Reconnection Electron Diffusion Region Events. Journal of Geophysical Research: Space Physics, 2018, 123, 4858-4878.	0.8	79
59	Energy Conversion by Parallel Electric Fields During Guide Field Reconnection in Scaled Laboratory and Space Experiments. Geophysical Research Letters, 2018, 45, 12,677.	1.5	12
60	Electron-scale dynamics of the diffusion region during symmetric magnetic reconnection in space. Science, 2018, 362, 1391-1395.	6.0	221
61	The reduction of magnetic reconnection outflow jets to sub-Alfvénic speeds. Physics of Plasmas, 2018, 25, .	0.7	20
62	Ion Kinetics in a Hot Flow Anomaly: MMS Observations. Geophysical Research Letters, 2018, 45, 11,520.	1.5	28
63	Concomitant Double Ion and Electron Populations in the Earth's Magnetopause Boundary Layers From Double Reconnection With Lobe and Closed Field Lines. Journal of Geophysical Research: Space Physics, 2018, 123, 5407-5419.	0.8	5
64	Localized and Intense Energy Conversion in the Diffusion Region of Asymmetric Magnetic Reconnection. Geophysical Research Letters, 2018, 45, 5260-5267.	1.5	26
65	The Role of the Parallel Electric Field in Electron-Scale Dissipation at Reconnecting Currents in the Magnetosheath. Journal of Geophysical Research: Space Physics, 2018, 123, 6533-6547.	0.8	40
66	Electron magnetic reconnection without ion coupling in Earth's turbulent magnetosheath. Nature, 2018, 557, 202-206.	13.7	263
67	Large-scale characteristics of reconnection diffusion regions and associated magnetopause crossings observed by MMS. Journal of Geophysical Research: Space Physics, 2017, 122, 5466-5486.	0.8	48
68	The nonlinear behavior of whistler waves at the reconnecting dayside magnetopause as observed by the Magnetospheric Multiscale mission: A case study. Journal of Geophysical Research: Space Physics, 2017, 122, 5487-5501.	0.8	22
69	Reconstruction of the electron diffusion region observed by the Magnetospheric Multiscale spacecraft: First results. Geophysical Research Letters, 2017, 44, 4566-4574.	1.5	27
70	Parallel electron heating in the magnetospheric inflow region. Geophysical Research Letters, 2017, 44, 4384-4392.	1.5	8
71	Statistical properties of solar wind reconnection exhausts. Journal of Geophysical Research: Space Physics, 2017, 122, 5895-5909.	0.8	29
72	Structure and evolution of flux transfer events near dayside magnetic reconnection dissipation region: MMS observations. Geophysical Research Letters, 2017, 44, 5951-5959.	1.5	26

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73	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.	1.5	46
74	The Effect of a Guide Field on Local Energy Conversion During Asymmetric Magnetic Reconnection: MMS Observations. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 11,342.	0.8	45
75	MMS Observations of Reconnection at Dayside Magnetopause Crossings During Transitions of the Solar Wind to Sub-Alfvénic Flow. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 9934-9951.	0.8	3
76	High-resolution Statistics of Solar Wind Turbulence at Kinetic Scales Using the Magnetospheric Multiscale Mission. <i>Astrophysical Journal Letters</i> , 2017, 844, L9.	3.0	30
77	THEMIS multispacecraft observations of a reconnecting magnetosheath current sheet with symmetric boundary conditions and a large guide field. <i>Geophysical Research Letters</i> , 2017, 44, 7598-7606.	1.5	14
78	Magnetospheric Multiscale Observation of Plasma Velocity-Space Cascade: Hermite Representation and Theory. <i>Physical Review Letters</i> , 2017, 119, 205101.	2.9	69
79	The Effect of a Guide Field on Local Energy Conversion During Asymmetric Magnetic Reconnection: Particle-in-Cell Simulations. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 11,523.	0.8	27
80	Multipoint Measurements of the Electron Jet of Symmetric Magnetic Reconnection with a Moderate Guide Field. <i>Physical Review Letters</i> , 2017, 118, 265101.	2.9	44
81	Magnetospheric Multiscale analysis of intense field-aligned Poynting flux near the Earth's plasma sheet boundary. <i>Geophysical Research Letters</i> , 2017, 44, 7106-7113.	1.5	16
82	Currents and associated electron scattering and bouncing near the diffusion region at Earth's magnetopause. <i>Geophysical Research Letters</i> , 2016, 43, 3042-3050.	1.5	81
83	Ion-scale secondary flux ropes generated by magnetopause reconnection as resolved by MMS. <i>Geophysical Research Letters</i> , 2016, 43, 4716-4724.	1.5	95
84	Electron jet of asymmetric reconnection. <i>Geophysical Research Letters</i> , 2016, 43, 5571-5580.	1.5	66
85	Magnetopause reconnection layer bounded by switch-off shocks: Part 2. Pressure anisotropy. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 9940-9955.	0.8	1
86	Electron-scale measurements of magnetic reconnection in space. <i>Science</i> , 2016, 352, aaf2939.	6.0	545
87	The response time of the magnetopause reconnection location to changes in the solar wind: MMS case study. <i>Geophysical Research Letters</i> , 2016, 43, 4673-4682.	1.5	21
88	Decay of mesoscale flux transfer events during quasi-continuous spatially extended reconnection at the magnetopause. <i>Geophysical Research Letters</i> , 2016, 43, 4755-4762.	1.5	28
89	Ion Larmor radius effects near a reconnection X line at the magnetopause: THEMIS observations and simulation comparison. <i>Geophysical Research Letters</i> , 2016, 43, 8844-8852.	1.5	21
90	MMS observations of electron-scale filamentary currents in the reconnection exhaust and near the X line. <i>Geophysical Research Letters</i> , 2016, 43, 6060-6069.	1.5	99

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91	Magnetic reconnection at the dayside magnetopause: Advances with MMS. Geophysical Research Letters, 2016, 43, 8327-8338.	1.5	125
92	MMS observations of large guide field symmetric reconnection between colliding reconnection jets at the center of a magnetic flux rope at the magnetopause. Geophysical Research Letters, 2016, 43, 5536-5544.	1.5	84
93	In situ evidence of electron energization in the electron diffusion region of magnetotail reconnection. Journal of Geophysical Research: Space Physics, 2016, 121, 1955-1968.	0.8	26
94	Magnetospheric Multiscale Mission observations and non-force free modeling of a flux transfer event immersed in a super-Alfvénic flow. Geophysical Research Letters, 2016, 43, 6070-6077.	1.5	22
95	Magnetospheric Multiscale observations of magnetic reconnection associated with Kelvin-Helmholtz waves. Geophysical Research Letters, 2016, 43, 5606-5615.	1.5	104
96	Magnetospheric Multiscale Satellite Observations of Parallel Electron Acceleration in Magnetic Field Reconnection by Fermi Reflection from Time Domain Structures. Physical Review Letters, 2016, 116, 145101.	2.9	45
97	Magnetospheric Multiscale Satellites Observations of Parallel Electric Fields Associated with Magnetic Reconnection. Physical Review Letters, 2016, 116, 235102.	2.9	61
98	Magnetospheric Multiscale Observations of the Electron Diffusion Region of Large Guide Field Magnetic Reconnection. Physical Review Letters, 2016, 117, 015001.	2.9	74
99	Electron energization and mixing observed by MMS in the vicinity of an electron diffusion region during magnetopause reconnection. Geophysical Research Letters, 2016, 43, 6036-6043.	1.5	67
100	Estimates of terms in Ohm's law during an encounter with an electron diffusion region. Geophysical Research Letters, 2016, 43, 5918-5925.	1.5	86
101	Observations of Hall Reconnection Physics Far Downstream of the \mathbf{X} Line. Physical Review Letters, 2016, 117, 185102.	2.9	22
102	Signatures of complex magnetic topologies from multiple reconnection sites induced by Kelvin-Helmholtz instability. Journal of Geophysical Research: Space Physics, 2016, 121, 9926-9939.	0.8	35
103	Reconnection guide field and quadrupolar structure observed by MMS on 16 October 2015 at 1307 UT. Journal of Geophysical Research: Space Physics, 2016, 121, 9880-9887.	0.8	10
104	Kinetic signatures of the region surrounding the \mathbf{X} line in asymmetric (magnetopause) reconnection. Geophysical Research Letters, 2016, 43, 4145-4154.	1.5	106
105	The FIELDs Instrument Suite for Solar Probe Plus. Space Science Reviews, 2016, 204, 49-82.	3.7	521
106	Magnetospheric Multiscale observations of large-amplitude, parallel, electrostatic waves associated with magnetic reconnection at the magnetopause. Geophysical Research Letters, 2016, 43, 5626-5634.	1.5	66
107	Motion of the MMS spacecraft relative to the magnetic reconnection structure observed on 16 October 2015 at 1307 UT. Geophysical Research Letters, 2016, 43, 5589-5596.	1.5	36
108	Comparison of Magnetospheric Multiscale ion jet signatures with predicted reconnection site locations at the magnetopause. Geophysical Research Letters, 2016, 43, 5997-6004.	1.5	19

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109	Reconnection layer bounded by switch-off shocks: Dayside magnetopause crossing by THEMIS D. Journal of Geophysical Research: Space Physics, 2016, 121, 3310-3332.	0.8	10
110	Establishing the Context for Reconnection Diffusion Region Encounters and Strategies for the Capture and Transmission of Diffusion Region Burst Data by MMS. Space Science Reviews, 2016, 199, 631-650.	3.7	14
111	Electron and ion edges and the associated magnetic topology of the reconnecting magnetopause. Journal of Geophysical Research: Space Physics, 2015, 120, 9294-9306.	0.8	20
112	The competition of electron and ion heating during magnetic reconnection. Geophysical Research Letters, 2015, 42, 9657-9665.	1.5	70
113	Development of bifurcated current sheets in solar wind reconnection exhausts. Geophysical Research Letters, 2015, 42, 10,513.	1.5	28
114	ON MULTIPLE RECONNECTION X -LINES AND TRIPOLAR PERTURBATIONS OF STRONG GUIDE MAGNETIC FIELDS. Astrophysical Journal, 2015, 805, 43.	1.6	22
115	What Controls the Structure and Dynamics of Earth's Magnetosphere?. Space Science Reviews, 2015, 188, 251-286.	3.7	43
116	Observations of plasma waves in the colliding jet region of a magnetic flux rope flanked by two active X lines at the subsolar magnetopause. Journal of Geophysical Research: Space Physics, 2014, 119, 6256-6272.	0.8	29
117	Electron heating during magnetic reconnection: A simulation scaling study. Physics of Plasmas, 2014, 21, .	0.7	74
118	CORE ELECTRON HEATING IN SOLAR WIND RECONNECTION EXHAUSTS. Astrophysical Journal Letters, 2014, 791, L17.	3.0	12
119	Ion bulk heating in magnetic reconnection exhausts at Earth's magnetopause: Dependence on the inflow $Alfvén$ speed and magnetic shear angle. Geophysical Research Letters, 2014, 41, 7002-7010.	1.5	73
120	The plasmaspheric plume and magnetopause reconnection. Geophysical Research Letters, 2014, 41, 223-228.	1.5	67
121	Energy Partition in Magnetic Reconnection in Earth's Magnetotail. Physical Review Letters, 2013, 110, 225001.	2.9	75
122	MAGNETIC RECONNECTION IN THE SOLAR WIND AT CURRENT SHEETS ASSOCIATED WITH EXTREMELY SMALL FIELD SHEAR ANGLES. Astrophysical Journal Letters, 2013, 763, L39.	3.0	71
123	In-Situ Observations of Reconnection in Space. Space Science Reviews, 2013, 178, 385-417.	3.7	163
124	The dependence of magnetic reconnection on plasma β^2 and magnetic shear: Evidence from magnetopause observations. Geophysical Research Letters, 2013, 40, 11-16.	1.5	109
125	Influence of asymmetries and guide fields on the magnetic reconnection diffusion region in collisionless space plasmas. Plasma Physics and Controlled Fusion, 2013, 55, 124001.	0.9	43
126	Electron bulk heating in magnetic reconnection at Earth's magnetopause: Dependence on the inflow $Alfvén$ speed and magnetic shear. Geophysical Research Letters, 2013, 40, 4475-4480.	1.5	101

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127	In-Situ Observations of Reconnection in Space. Space Sciences Series of ISSI, 2013, , 309-341.	0.0	5
128	Spatial distribution of rolled up Kelvin-Helmholtz vortices at Earth's dayside and flank magnetopause. Annales Geophysicae, 2012, 30, 1025-1035.	0.6	59
129	The location of reconnection at the magnetopause: Testing the maximum magnetic shear model with THEMIS observations. Journal of Geophysical Research, 2012, 117, .	3.3	75
130	Triggering of magnetic reconnection in a magnetosheath current sheet due to compression against the magnetopause. Geophysical Research Letters, 2011, 38, n/a-n/a.	1.5	33
131	Magnetic reconnection X-line retreat associated with dipolarization of the Earth's magnetosphere. Geophysical Research Letters, 2011, 38, n/a-n/a.	1.5	30
132	Super-Alfvénic Propagation of Substorm Reconnection Signatures and Poynting Flux. Physical Review Letters, 2011, 107, 065001.	2.9	66
133	Direct Evidence for a Three-Dimensional Magnetic Flux Rope Flanked by Two Active Magnetic Reconnection Lines at Earth's Magnetopause. Physical Review Letters, 2011, 107, 165007.	2.9	78
134	Effect of inflow density on ion diffusion region of magnetic reconnection: Particle-in-cell simulations. Physics of Plasmas, 2011, 18, .	0.7	25
135	THE DEPENDENCE OF MAGNETIC RECONNECTION ON PLASMA β^2 AND MAGNETIC SHEAR: EVIDENCE FROM SOLAR WIND OBSERVATIONS. Astrophysical Journal Letters, 2010, 719, L199-L203.	3.0	130
136	ELECTRON ACCELERATION BY MULTI-ISLAND COALESCENCE. Astrophysical Journal, 2010, 714, 915-926.	1.6	233
137	Asymmetry of the Ion Diffusion Region Hall Electric and Magnetic Fields during Guide Field Reconnection: Observations and Comparison with Simulations. Physical Review Letters, 2010, 104, 205001.	2.9	91
138	Average properties of the magnetic reconnection ion diffusion region in the Earth's magnetotail: The 2001-2005 Cluster observations and comparison with simulations. Journal of Geophysical Research, 2010, 115, .	3.3	182
139	Evidence that crater flux transfer events are initial stages of typical flux transfer events. Journal of Geophysical Research, 2010, 115, .	3.3	31
140	Cause of super-Alfvénic thermal electron heating during magnetotail reconnection. Geophysical Research Letters, 2010, 37, .	1.5	36
141	Observations of Turbulence Generated by Magnetic Reconnection. Physical Review Letters, 2009, 102, 035001.	2.9	146
142	Observation of a Complex Solar Wind Reconnection Exhaust from Spacecraft Separated by over 1800 R _E . Solar Physics, 2009, 256, 379-392.	1.0	39
143	Prevalence of extended reconnection X-lines in the solar wind at 1 AU. Geophysical Research Letters, 2009, 36, .	1.5	64
144	Ion heating resulting from pickup in magnetic reconnection exhausts. Journal of Geophysical Research, 2009, 114, .	3.3	151

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145	Asymmetric shear flow effects on magnetic field configuration within oppositely directed solar wind reconnection exhausts. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	19
146	Magnetospheric quasi-static response to the dynamic magnetosheath: A THEMIS case study. <i>Geophysical Research Letters</i> , 2008, 35, .	1.5	22
147	THEMIS observations of a hot flow anomaly: Solar wind, magnetosheath, and ground-based measurements. <i>Geophysical Research Letters</i> , 2008, 35, .	1.5	85
148	THEMIS multi-spacecraft observations of magnetosheath plasma penetration deep into the dayside low-latitude magnetosphere for northward and strong B_y IMF. <i>Geophysical Research Letters</i> , 2008, 35, .	1.5	54
149	Tail Reconnection Triggering Substorm Onset. <i>Science</i> , 2008, 321, 931-935.	6.0	551
150	Anomalous Flow Deflection at Earth's Low-Alfvén-Mach-Number Bow Shock. <i>Physical Review Letters</i> , 2008, 101, 065003.	2.9	14
151	Evidence for an Elongated ($\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle T_j \text{ ETQq1 1 0.784314 rgBT /Overlock 107}$) Diffusion Region during Fast Magnetic Reconnection. <i>Physical Review Letters</i> , 2007, 99, 255002.	2.9	150
152	Direct evidence for prolonged magnetic reconnection at a continuous x-line within the heliospheric current sheet. <i>Geophysical Research Letters</i> , 2007, 34, .	1.5	70
153	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.	3.3	128
154	Evidence for magnetic reconnection initiated in the magnetosheath. <i>Geophysical Research Letters</i> , 2007, 34, .	1.5	95
155	Prevalence of magnetic reconnection at small field shear angles in the solar wind. <i>Geophysical Research Letters</i> , 2007, 34, .	1.5	81
156	Five spacecraft observations of oppositely directed exhaust jets from a magnetic reconnection X-line extending $> 4.26 \times 10^6$ km in the solar wind at 1 AU. <i>Geophysical Research Letters</i> , 2007, 34, .	1.5	53
157	Multiple magnetic reconnection sites associated with a coronal mass ejection in the solar wind. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	69
158	Evidence for newly closed magnetosheath field lines at the dayside magnetopause under northward IMF. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	99
159	Simultaneous Geotail and Wind observations of reconnection at the subsolar and tail flank magnetopause. <i>Geophysical Research Letters</i> , 2006, 33, .	1.5	37
160	Detection of oppositely directed reconnection jets in a solar wind current sheet. <i>Geophysical Research Letters</i> , 2006, 33, .	1.5	62
161	A magnetic reconnection X-line extending more than 390 Earth radii in the solar wind. <i>Nature</i> , 2006, 439, 175-178.	13.7	281
162	Cluster Observes the High-Altitude CUSP Region. <i>Surveys in Geophysics</i> , 2005, 26, 135-175.	2.1	34

#	ARTICLE	IF	CITATIONS
163	Characteristics of the near-tail dawn magnetopause and boundary layer. <i>Annales Geophysicae</i> , 2005, 23, 1481-1497.	0.6	48
164	Characteristics of the magnetosheath electron boundary layer under northward interplanetary magnetic field: Implications for high-latitude reconnection. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	81
165	Cluster encounter of a magnetic reconnection diffusion region in the near-Earth magnetotail on September 19, 2003. <i>Geophysical Research Letters</i> , 2005, 32, n/a-n/a.	1.5	106
166	Cluster multispacecraft observations at the high-latitude duskside magnetopause: implications for continuous and component magnetic reconnection. <i>Annales Geophysicae</i> , 2005, 23, 461-473.	0.6	46
167	Cluster observations of continuous reconnection at the magnetopause under steady interplanetary magnetic field conditions. <i>Annales Geophysicae</i> , 2004, 22, 2355-2367.	0.6	118
168	Structure of the Magnetic Reconnection Diffusion Region from Four-Spacecraft Observations. <i>Physical Review Letters</i> , 2004, 93, 105001.	2.9	193
169	Transport of solar wind into Earth's magnetosphere through rolled-up Kelvinâ€Helmholtz vortices. <i>Nature</i> , 2004, 430, 755-758.	13.7	562
170	Wind observations of asymmetric magnetic reconnection in the distant magnetotail. <i>Geophysical Research Letters</i> , 2004, 31, n/a-n/a.	1.5	28
171	Cluster survey of cusp reconnection and its IMF dependence. <i>Geophysical Research Letters</i> , 2004, 31, .	1.5	34
172	Plasma depletion layer: Event studies with a global model. <i>Journal of Geophysical Research</i> , 2003, 108, SMP 8-1.	3.3	28
173	Simultaneous Cluster and IMAGE observations of cusp reconnection and auroral proton spot for northward IMF. <i>Geophysical Research Letters</i> , 2003, 30, n/a-n/a.	1.5	130
174	The complex structure of the reconnecting magnetopause. <i>Physics of Plasmas</i> , 2003, 10, 2480-2485.	0.7	14
175	Evidence of Diffusion Regions at a Subsolar Magnetopause Crossing. <i>Physical Review Letters</i> , 2002, 89, 015002.	2.9	335
176	Evidence for Electron Acceleration up to ~ 4300 eV in the Magnetic Reconnection Diffusion Region of Earth's Magnetotail. <i>Physical Review Letters</i> , 2002, 89, 195001.	2.9	301
177	Wind survey of high-speed bulk flows and field-aligned beams in the near-Earth plasma sheet. <i>Journal of Geophysical Research</i> , 2002, 107, SMP 3-1-SMP 3-17.	3.3	86
178	Cluster observations of the exterior cusp and its surrounding boundaries under northward IMF. <i>Geophysical Research Letters</i> , 2002, 29, 56-1-56-4.	1.5	87
179	Observation of lower hybrid drift instability in the diffusion region at a reconnecting magnetopause. <i>Geophysical Research Letters</i> , 2002, 29, 33-1-33-4.	1.5	140
180	Wind observations of foreshock cavities: A case study. <i>Journal of Geophysical Research</i> , 2002, 107, SMP 4-1.	3.3	103

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181	Fluid and kinetics signatures of reconnection at the dawn tail magnetopause: Wind observations. Journal of Geophysical Research, 2001, 106, 25489-25501.	3.3	61
182	First multispacecraft ion measurements in and near the Earth's magnetosphere with the identical Cluster ion spectrometry (CIS) experiment. Annales Geophysicae, 2001, 19, 1303-1354.	0.6	1,040
183	In situ detection of collisionless reconnection in the Earth's magnetotail. Nature, 2001, 412, 414-417.	13.7	467
184	Extended magnetic reconnection at the Earth's magnetopause from detection of bi-directional jets. Nature, 2000, 404, 848-850.	13.7	212
185	Wavenumber and variance analyses of high-speed flows observed by Wind in the midtail plasma sheet: Evidence for reconnection. Journal of Geophysical Research, 2000, 105, 25247-25263.	3.3	49
186	Magnetopause motion driven by interplanetary magnetic field variations. Journal of Geophysical Research, 2000, 105, 25155-25169.	3.3	52
187	Comprehensive study of the magnetospheric response to a hot flow anomaly. Journal of Geophysical Research, 1999, 104, 4577-4593.	3.3	169
188	Magnetotail flow bursts: Association to global magnetospheric circulation, relationship to ionospheric activity and direct evidence for localization. Geophysical Research Letters, 1997, 24, 2271-2274.	1.5	163
189	Low-latitude dayside magnetopause and boundary layer for high magnetic shear: 2. Occurrence of magnetic reconnection. Journal of Geophysical Research, 1996, 101, 7817-7828.	3.3	138
190	Low-latitude dayside magnetopause and boundary layer for high magnetic shear: 1. Structure and motion. Journal of Geophysical Research, 1996, 101, 7801-7815.	3.3	184
191	The subsolar magnetosheath and magnetopause for high solar wind ram pressure: WIND observations. Geophysical Research Letters, 1996, 23, 1279-1282.	1.5	48
192	Characteristics of the ion pressure tensor in the Earth's magnetosheath. Geophysical Research Letters, 1995, 22, 667-670.	1.5	27
193	Fluid Aspects of Reconnection at the Magnetopause: In Situ Observations. Geophysical Monograph Series, 0, , 167-180.	0.1	47
194	Asymmetric interaction of a solar wind reconnecting current sheet and its magnetic hole with Earth's bow shock and magnetopause. Journal of Geophysical Research: Space Physics, 0, , .	0.8	1