

Benoit Lavraud

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/864909/publications.pdf>

Version: 2024-02-01

201
papers

9,117
citations

44444

50
h-index

60403

85
g-index

235
all docs

235
docs citations

235
times ranked

3037
citing authors

#	ARTICLE	IF	CITATIONS
1	Particle energization in space plasmas: towards a multi-point, multi-scale plasma observatory. <i>Experimental Astronomy</i> , 2022, 54, 427-471.	1.6	14
2	Investigation of the homogeneity of energy conversion processes at dipolarization fronts from MMS measurements. <i>Physics of Plasmas</i> , 2022, 29, .	0.7	5
3	Massive Multi-Mission Statistical Study and Analytical Modeling of the Earth's Magnetopause: 3. An Asymmetric Non Indented Magnetopause Analytical Model. <i>Journal of Geophysical Research: Space Physics</i> , 2022, 127, .	0.8	6
4	Massive Multi-Mission Statistical Study and Analytical Modeling of the Earth's Magnetopause: 2. Shape and Location. <i>Journal of Geophysical Research: Space Physics</i> , 2022, 127, .	0.8	11
5	Massive Multi-Mission Statistical Study and Analytical Modeling of the Earth's Magnetopause: 4. On the Near-Cusp Magnetopause Indentation. <i>Journal of Geophysical Research: Space Physics</i> , 2022, 127, .	0.8	5
6	Massive Multi-Mission Statistical Study and Analytical Modeling of the Earth's Magnetopause: 1. A Gradient Boosting Based Automatic Detection of Near-Earth Regions. <i>Journal of Geophysical Research: Space Physics</i> , 2022, 127, .	0.8	8
7	Flux rope and dynamics of the heliospheric current sheet. <i>Astronomy and Astrophysics</i> , 2022, 659, A110.	2.1	20
8	Kelvin-Helmholtz instability and induced magnetic reconnection at the Earth's magnetopause: a 3D simulation based on satellite data. <i>Plasma Physics and Controlled Fusion</i> , 2022, 64, 044014.	0.9	1
9	Parallel Electron Heating through Landau Resonance with Lower Hybrid Waves at the Edge of Reconnection Ion Jets. <i>Astrophysical Journal</i> , 2022, 928, 5.	1.6	12
10	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
11	Energy Conversions Associated With Magnetic Reconnection. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, .	0.8	10
12	An Encounter With the Ion and Electron Diffusion Regions at a Flapping and Twisted Tail Current Sheet. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028903.	0.8	8
13	Statistical Relationship Between Interplanetary Magnetic Field Conditions and the Helicity Sign of Flux Transfer Event Flux Ropes. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL091257.	1.5	6
14	Kinetic Interaction of Cold and Hot Protons With an Oblique EMIC Wave Near the Dayside Reconnecting Magnetopause. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL092376.	1.5	6
15	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
16	Direct Multipoint Observations Capturing the Reformation of a Supercritical Fast Magnetosonic Shock. <i>Astrophysical Journal Letters</i> , 2021, 911, L31.	3.0	6
17	Identification of Electron Diffusion Regions with a Machine Learning Approach on MMS Data at the Earth's Magnetopause. <i>Earth and Space Science</i> , 2021, 8, e2020EA001530.	1.1	7
18	Magnetic increases with central current sheets: observations with Parker Solar Probe. <i>Astronomy and Astrophysics</i> , 2021, 650, A11.	2.1	8

#	ARTICLE	IF	CITATIONS
19	Prevalence of magnetic reconnection in the near-Sun heliospheric current sheet. <i>Astronomy and Astrophysics</i> , 2021, 650, A13.	2.1	23
20	Direct evidence for magnetic reconnection at the boundaries of magnetic switchbacks with Parker Solar Probe. <i>Astronomy and Astrophysics</i> , 2021, 650, A5.	2.1	27
21	Impacts of Ionospheric Ions on Magnetic Reconnection and Earth's Magnetosphere Dynamics. <i>Reviews of Geophysics</i> , 2021, 59, e2020RG000707.	9.0	26
22	Automated Multi-Dataset Analysis (AMDA): An on-line database and analysis tool for heliospheric and planetary plasma data. <i>Planetary and Space Science</i> , 2021, 201, 105214.	0.9	24
23	Upper-Hybrid Waves Driven by Meandering Electrons Around Magnetic Reconnection X Line. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL093164.	1.5	13
24	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
25	Kinetic Imprints of Ion Acceleration in Collisionless Magnetic Reconnection. <i>Astrophysical Journal</i> , 2021, 919, 15.	1.6	12
26	Solar Orbiter observations of the Kelvin-Helmholtz waves in the solar wind. <i>Astronomy and Astrophysics</i> , 2021, 656, A12.	2.1	13
27	Switchback-like structures observed by Solar Orbiter. <i>Astronomy and Astrophysics</i> , 2021, 656, A40.	2.1	7
28	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
29	Statistical Characteristics in the Spectrum of Whistler Waves Near the Diffusion Region of Dayside Magnetopause Reconnection. <i>Geophysical Research Letters</i> , 2021, 48, .	1.5	9
30	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
31	Quantification of Cold-Ion Beams in a Magnetic Reconnection Jet. <i>Frontiers in Astronomy and Space Sciences</i> , 2021, 8, .	1.1	4
32	Solar wind \hat{e} -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
33	Solar Wind Anomalies at 1 au and Their Associations with Large-scale Structures. <i>Astrophysical Journal</i> , 2021, 923, 105.	1.6	1
34	Electron Bernstein waves driven by electron crescents near the electron diffusion region. <i>Nature Communications</i> , 2020, 11, 141.	5.8	26
35	Investigation of Electron Distribution Functions Associated With Whistler Waves at Dipolarization Fronts in the Earth's Magnetotail: MMS Observations. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2020JA028268.	0.8	19
36	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

#	ARTICLE	IF	CITATIONS
37	Tearing Instability and Periodic Density Perturbations in the Slow Solar Wind. <i>Astrophysical Journal Letters</i> , 2020, 895, L20.	3.0	39
38	Proton Temperature Anisotropy Variations in Inner Heliosphere Estimated with the First Parker Solar Probe Observations. <i>Astrophysical Journal, Supplement Series</i> , 2020, 246, 70.	3.0	56
39	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
40	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
41	Lower-Hybrid Drift Waves Driving Electron Nongyrotropic Heating and Vortical Flows in a Magnetic Reconnection Layer. <i>Physical Review Letters</i> , 2020, 125, 025103.	2.9	29
42	Relating Streamer Flows to Density and Magnetic Structures at the Parker Solar Probe. <i>Astrophysical Journal, Supplement Series</i> , 2020, 246, 37.	3.0	52
43	Analysis of the Internal Structure of the Streamer Blowout Observed by the Parker Solar Probe During the First Solar Encounter. <i>Astrophysical Journal, Supplement Series</i> , 2020, 246, 63.	3.0	34
44	Generation of Turbulence in Kelvin-Helmholtz Vortices at the Earth's Magnetopause: Magnetospheric Multiscale Observations. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA027595.	0.8	15
45	On the deviation from Maxwellian of the ion velocity distribution functions in the turbulent magnetosheath. <i>Journal of Plasma Physics</i> , 2020, 86, .	0.7	15
46	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
47	Source and Propagation of a Streamer Blowout Coronal Mass Ejection Observed by the Parker Solar Probe. <i>Astrophysical Journal, Supplement Series</i> , 2020, 246, 69.	3.0	29
48	Simulation of Plasmaspheric Plume Impact on Dayside Magnetic Reconnection. <i>Geophysical Research Letters</i> , 2020, 47, e2019GL086546.	1.5	19
49	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
50	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
51	Characteristics of the Flank Magnetopause: MMS Results. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA027623.	0.8	24
52	Magnetic Reconnection Inside a Flux Transfer Event-Like Structure in Magnetopause Kelvin-Helmholtz Waves. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA027527.	0.8	10
53	Energy Flux Densities near the Electron Dissipation Region in Asymmetric Magnetopause Reconnection. <i>Physical Review Letters</i> , 2020, 125, 265102.	2.9	17
54	MMS Direct Observations of Kinetic-scale Shock Self-reformation. <i>Astrophysical Journal Letters</i> , 2020, 901, L6.	3.0	10

#	ARTICLE	IF	CITATIONS
55	Editorial: Improving the Understanding of Kinetic Processes in Solar Wind and Magnetosphere: From CLUSTER to Magnetospheric Multiscale Mission. <i>Frontiers in Astronomy and Space Sciences</i> , 2020, 7, .	1.1	0
56	Satellite Dataâ€Based 3â€D Simulation of Kelvinâ€Helmholtz Instability and Induced Magnetic Reconnection at the Earth's Magnetopause. <i>Geophysical Research Letters</i> , 2019, 46, 11597-11605.	1.5	15
57	In Situ Measurements of the Variable Slow Solar Wind near Sector Boundaries. <i>Astrophysical Journal</i> , 2019, 882, 51.	1.6	35
58	MMS Observations of Multiscale Hall Physics in the Magnetotail. <i>Geophysical Research Letters</i> , 2019, 46, 10230-10239.	1.5	5
59	Fourâ€Spacecraft Measurements of the Shape and Dimensionality of Magnetic Structures in the Nearâ€Earth Plasma Environment. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 6850-6868.	0.8	7
60	Reconnection With Magnetic Flux Pileup at the Interface of Converging Jets at the Magnetopause. <i>Geophysical Research Letters</i> , 2019, 46, 1937-1946.	1.5	36
61	Mass Loading the Earth's Dayside Magnetopause Boundary Layer and Its Effect on Magnetic Reconnection. <i>Geophysical Research Letters</i> , 2019, 46, 6204-6213.	1.5	21
62	Electron Diffusion Regions in Magnetotail Reconnection Under Varying Guide Fields. <i>Geophysical Research Letters</i> , 2019, 46, 6230-6238.	1.5	33
63	Whistler Waves Driven by Fieldâ€Aligned Streaming Electrons in the Nearâ€Earth Magnetotail Reconnection. <i>Geophysical Research Letters</i> , 2019, 46, 5045-5054.	1.5	18
64	Signatures of Cold Ions in a Kinetic Simulation of the Reconnecting Magnetopause. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 2497.	0.8	14
65	Crescentâ€Shaped Electron Distributions at the Nonreconnecting Magnetopause: Magnetospheric Multiscale Observations. <i>Geophysical Research Letters</i> , 2019, 46, 3024-3032.	1.5	17
66	Observations of Magnetic Reconnection in the Transition Region of Quasiâ€Parallel Shocks. <i>Geophysical Research Letters</i> , 2019, 46, 1177-1184.	1.5	51
67	Electrostatic Spacecraft Potential Structure and Wake Formation Effects for Characterization of Cold Ion Beams in the Earth's Magnetosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 10048-10062.	0.8	17
68	Stationarity of the Reconnection Xâ€Line at Earth's Magnetopause for Southward IMF. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 8524-8534.	0.8	14
69	Signatures of Magnetic Separatrices at the Borders of a Crater Flux Transfer Event Connected to an Active Xâ€Line. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 8600-8616.	0.8	5
70	Highâ€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.	0.8	14
71	Universality of Lower Hybrid Waves at Earth's Magnetopause. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 8727-8760.	0.8	45
72	The Properties of Lion Roars and Electron Dynamics in Mirror Mode Waves Observed by the Magnetospheric MultiScale Mission. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 93-103.	0.8	26

#	ARTICLE	IF	CITATIONS
73	Large-scale Survey of the Structure of the Dayside Magnetopause by MMS. Journal of Geophysical Research: Space Physics, 2018, 123, 2018-2033.	0.8	27
74	Energy partitioning constraints at kinetic scales in low- β turbulence. Physics of Plasmas, 2018, 25, .	0.7	25
75	Magnetic Reconnection, Turbulence, and Particle Acceleration: Observations in the Earth's Magnetotail. Geophysical Research Letters, 2018, 45, 3338-3347.	1.5	69
76	Spacecraft Observations of Oblique Electron Beams Breaking the Frozen-In Law During Asymmetric Reconnection. Physical Review Letters, 2018, 120, 055101.	2.9	20
77	Intense Current Structures Observed at Electron Kinetic Scales in the Near-Earth Magnetotail During Dipolarization and Substorm Current Wedge Formation. Geophysical Research Letters, 2018, 45, 602-611.	1.5	23
78	Electron Crescent Distributions as a Manifestation of Diamagnetic Drift in an Electron-scale Current Sheet: Magnetospheric Multiscale Observations Using New 7.5Åms Fast Plasma Investigation Moments. Geophysical Research Letters, 2018, 45, 578-584.	1.5	52
79	MMS Observation of Asymmetric Reconnection Supported by $\nabla \cdot \mathbf{E}$ Electron Pressure Divergence. Journal of Geophysical Research: Space Physics, 2018, 123, 1806-1821.	0.8	34
80	Electron Dynamics Within the Electron Diffusion Region of Asymmetric Reconnection. Journal of Geophysical Research: Space Physics, 2018, 123, 146-162.	0.8	10
81	Four-spacecraft Magnetic Curvature and Vorticity Analyses on Kelvin-Helmholtz Waves in MHD Simulations. Journal of Geophysical Research: Space Physics, 2018, 123, 513-529.	0.8	6
82	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
83	Effects in the Near-Magnetopause Magnetosheath Elicited by Large-Amplitude Alfvénic Fluctuations Terminating in a Field and Flow Discontinuity. Journal of Geophysical Research: Space Physics, 2018, 123, 8983-9004.	0.8	3
84	Electron Reconnection in the Magnetopause Current Layer. Journal of Geophysical Research: Space Physics, 2018, 123, 9222-9238.	0.8	15
85	Magnetospheric Multiscale Observations of an Ion Diffusion Region With Large Guide Field at the Magnetopause: Current System, Electron Heating, and Plasma Waves. Journal of Geophysical Research: Space Physics, 2018, 123, 1834-1852.	0.8	32
86	Electron-scale dynamics of the diffusion region during symmetric magnetic reconnection in space. Science, 2018, 362, 1391-1395.	6.0	221
87	North-South Asymmetric Kelvin-Helmholtz Instability and Induced Reconnection at the Earth's Magnetospheric Flanks. Journal of Geophysical Research: Space Physics, 2018, 123, 9340-9356.	0.8	19
88	Nonlobe Reconnection at the Earth's Magnetopause for Northward IMF. Journal of Geophysical Research: Space Physics, 2018, 123, 8275-8291.	0.8	8
89	Beam tracking strategies for fast acquisition of solar wind velocity distribution functions with high energy and angular resolutions. Annales Geophysicae, 2018, 36, 1285-1302.	0.6	6
90	Perpendicular Current Reduction Caused by Cold Ions of Ionospheric Origin in Magnetic Reconnection at the Magnetopause: Particle-in-Cell Simulations and Spacecraft Observations. Geophysical Research Letters, 2018, 45, 10,033.	1.5	17

#	ARTICLE	IF	CITATIONS
91	Observational Evidence of Large-scale Multiple Reconnection at the Earth's Dayside Magnetopause. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 8407-8421.	0.8	21
92	Small-scale Flux Transfer Events Formed in the Reconnection Exhaust Region Between Two X Lines. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 8473-8488.	0.8	23
93	Ion Kinetics in a Hot Flow Anomaly: MMS Observations. <i>Geophysical Research Letters</i> , 2018, 45, 11,520.	1.5	28
94	Concomitant Double Ion and Electron Populations in the Earth's Magnetopause Boundary Layers From Double Reconnection With Lobe and Closed Field Lines. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 5407-5419.	0.8	5
95	Ion-scale Kinetic Alfvén Turbulence: MMS Measurements of the Alfvén Ratio in the Magnetosheath. <i>Geophysical Research Letters</i> , 2018, 45, 7974-7984.	1.5	19
96	Electron magnetic reconnection without ion coupling in Earth's turbulent magnetosheath. <i>Nature</i> , 2018, 557, 202-206.	13.7	263
97	Electrostatic analyzer design for solar wind proton measurements with high temporal, energy, and angular resolutions. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 1439-1450.	0.8	17
98	Magnetospheric Multiscale Observations of Electron Vortex Magnetic Hole in the Turbulent Magnetosheath Plasma. <i>Astrophysical Journal Letters</i> , 2017, 836, L27.	3.0	85
99	Kinetic Alfvén wave explanation of the Hall fields in magnetic reconnection. <i>Geophysical Research Letters</i> , 2017, 44, 634-640.	1.5	52
100	Electron Heating at Kinetic Scales in Magnetosheath Turbulence. <i>Astrophysical Journal</i> , 2017, 836, 247.	1.6	50
101	Interplay of solar wind parameters and physical mechanisms producing the saturation of the cross polar cap potential. <i>Geophysical Research Letters</i> , 2017, 44, 3019-3027.	1.5	9
102	The formation of superdense plasma sheet in association with the IMF turning from northward to southward. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 2936-2955.	0.8	5
103	Quantitative analysis of a Hall system in the exhaust of asymmetric magnetic reconnection. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 5277-5289.	0.8	21
104	Kinetic simulation of asymmetric magnetic reconnection with cold ions. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 5290-5306.	0.8	29
105	Large-scale characteristics of reconnection diffusion regions and associated magnetopause crossings observed by MMS. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 5466-5486.	0.8	48
106	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.	0.8	52
107	Parallel electron heating in the magnetospheric inflow region. <i>Geophysical Research Letters</i> , 2017, 44, 4384-4392.	1.5	8
108	Wave-particle energy exchange directly observed in a kinetic Alfvén-branch wave. <i>Nature Communications</i> , 2017, 8, 14719.	5.8	73

#	ARTICLE	IF	CITATIONS
109	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
110	Lower hybrid waves in the ion diffusion and magnetospheric inflow regions. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 517-533.	0.8	108
111	MMS Observation of Magnetic Reconnection in the Turbulent Magnetosheath. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 11,442.	0.8	73
112	MMS Observations and Hybrid Simulations of Surface Ripples at a Marginally Quasi-Parallel Shock. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 11,003.	0.8	53
113	Lower Hybrid Drift Waves and Electromagnetic Electron Space-Phase Holes Associated With Dipolarization Fronts and Field-Aligned Currents Observed by the Magnetospheric Multiscale Mission During a Substorm. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 12,236.	0.8	31
114	Cold Ionospheric Ions in the Magnetic Reconnection Outflow Region. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 10,194.	0.8	19
115	Energy budget and mechanisms of cold ion heating in asymmetric magnetic reconnection. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 9396-9413.	0.8	24
116	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
117	Coalescence of Macroscopic Flux Ropes at the Subsolar Magnetopause: Magnetospheric Multiscale Observations. <i>Physical Review Letters</i> , 2017, 119, 055101.	2.9	72
118	Magnetospheric ion influence at the dayside magnetopause. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 8617-8631.	0.8	32
119	Four-Spacecraft Magnetic Curvature Analysis on Kelvin-Helmholtz Waves in MHD Simulations. <i>Proceedings of the International Astronomical Union</i> , 2017, 13, 132-134.	0.0	0
120	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
121	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
122	Electron jet of asymmetric reconnection. <i>Geophysical Research Letters</i> , 2016, 43, 5571-5580.	1.5	66
123	Electron scale structures and magnetic reconnection signatures in the turbulent magnetosheath. <i>Geophysical Research Letters</i> , 2016, 43, 5969-5978.	1.5	92
124	Correcting moments of in situ particle distribution functions for spacecraft electrostatic charging. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 8462-8474.	0.8	34
125	Two-scale ion meandering caused by the polarization electric field during asymmetric reconnection. <i>Geophysical Research Letters</i> , 2016, 43, 7831-7839.	1.5	19
126	Electron-scale measurements of magnetic reconnection in space. <i>Science</i> , 2016, 352, aaf2939.	6.0	545

#	ARTICLE	IF	CITATIONS
127	Electron dynamics in a subprotonâ€gyroscale magnetic hole. Geophysical Research Letters, 2016, 43, 4112-4118.	1.5	49
128	Transient, smallâ€scale fieldâ€aligned currents in the plasma sheet boundary layer during storm time substorms. Geophysical Research Letters, 2016, 43, 4841-4849.	1.5	30
129	Kinetic evidence of magnetic reconnection due to Kelvinâ€Helmholtz waves. Geophysical Research Letters, 2016, 43, 5635-5643.	1.5	47
130	Decay of mesoscale flux transfer events during quasiâ€continuous spatially extended reconnection at the magnetopause. Geophysical Research Letters, 2016, 43, 4755-4762.	1.5	28
131	Magnetic reconnection and modification of the Hall physics due to cold ions at the magnetopause. Geophysical Research Letters, 2016, 43, 6705-6712.	1.5	45
132	MMS observations of electronâ€scale filamentary currents in the reconnection exhaust and near the X line. Geophysical Research Letters, 2016, 43, 6060-6069.	1.5	99
133	Solar windâ€magnetosphere coupling efficiency during ejecta and sheathâ€driven geomagnetic storms. Journal of Geophysical Research: Space Physics, 2016, 121, 4378-4396.	0.8	27
134	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
135	Strong current sheet at a magnetosheath jet: Kinetic structure and electron acceleration. Journal of Geophysical Research: Space Physics, 2016, 121, 9608-9618.	0.8	20
136	Magnetospheric Multiscale Mission observations and nonâ€force free modeling of a flux transfer event immersed in a superâ€AlfvÃ©nic flow. Geophysical Research Letters, 2016, 43, 6070-6077.	1.5	22
137	Magnetospheric Multiscale observations of magnetic reconnection associated with Kelvinâ€Helmholtz waves. Geophysical Research Letters, 2016, 43, 5606-5615.	1.5	104
138	Ion demagnetization in the magnetopause current layer observed by MMS. Geophysical Research Letters, 2016, 43, 4850-4857.	1.5	12
139	Cold ion demagnetization near the Xâ€line of magnetic reconnection. Geophysical Research Letters, 2016, 43, 6759-6767.	1.5	35
140	Electron currents and heating in the ion diffusion region of asymmetric reconnection. Geophysical Research Letters, 2016, 43, 4691-4700.	1.5	53
141	Whistler mode waves and Hall fields detected by MMS during a dayside magnetopause crossing. Geophysical Research Letters, 2016, 43, 5943-5952.	1.5	44
142	Magnetospheric Multiscale Observations of the Electron Diffusion Region of Large Guide Field Magnetic Reconnection. Physical Review Letters, 2016, 117, 015001.	2.9	74
143	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
144	Rippled Quasiperpendicular Shock Observed by the Magnetospheric Multiscale Spacecraft. Physical Review Letters, 2016, 117, 165101.	2.9	87

#	ARTICLE	IF	CITATIONS
145	Origin of low proton-to-electron temperature ratio in the Earth's plasma sheet. Journal of Geophysical Research: Space Physics, 2016, 121, 9985.	0.8	37
146	Spacecraft Observations and Analytic Theory of Crescent-Shaped Electron Distributions in Asymmetric Magnetic Reconnection. Physical Review Letters, 2016, 117, 185101.	2.9	42
147	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
148	First in situ evidence of electron pitch angle scattering due to magnetic field line curvature in the ion diffusion region. Journal of Geophysical Research: Space Physics, 2016, 121, 4103-4110.	0.8	15
149	Turbulence Heating Observer " satellite mission proposal. Journal of Plasma Physics, 2016, 82, .	0.7	60
150	Full particle-in-cell simulations of kinetic equilibria and the role of the initial current sheet on steady asymmetric magnetic reconnection. Journal of Plasma Physics, 2016, 82, .	0.7	6
151	Shift of the magnetopause reconnection line to the winter hemisphere under southward IMF conditions: Geotail and MMS observations. Geophysical Research Letters, 2016, 43, 5581-5588.	1.5	17
152	Finite gyroradius effects in the electron outflow of asymmetric magnetic reconnection. Geophysical Research Letters, 2016, 43, 6724-6733.	1.5	37
153	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
154	Observation of high-frequency electrostatic waves in the vicinity of the reconnection ion diffusion region by the spacecraft of the Magnetospheric Multiscale (MMS) mission. Geophysical Research Letters, 2016, 43, 4808-4815.	1.5	32
155	Cold ion heating at the dayside magnetopause during magnetic reconnection. Geophysical Research Letters, 2016, 43, 58-66.	1.5	34
156	Statistical study of magnetic cloud erosion by magnetic reconnection. Journal of Geophysical Research: Space Physics, 2015, 120, 43-60.	0.8	106
157	Magnetic field topology for northward IMF reconnection: Ion observations. Journal of Geophysical Research: Space Physics, 2014, 119, 9051-9071.	0.8	32
158	Review of Solar Wind Entry into and Transport Within the Plasma Sheet. Space Science Reviews, 2014, 184, 33-86.	3.7	82
159	Geo-effectiveness and radial dependence of magnetic cloud erosion by magnetic reconnection. Journal of Geophysical Research: Space Physics, 2014, 119, 26-35.	0.8	56
160	Energy Partition in Magnetic Reconnection in Earth's Magnetotail. Physical Review Letters, 2013, 110, 225001.	2.9	75
161	Asymmetry of magnetosheath flows and magnetopause shape during low Alfvén Mach number solar wind. Journal of Geophysical Research: Space Physics, 2013, 118, 1089-1100.	0.8	49
162	Properties and processes that influence CME geo-effectiveness. Proceedings of the International Astronomical Union, 2013, 8, 273-284.	0.0	4

#	ARTICLE	IF	CITATIONS
163	Spatial distribution of rolled up Kelvin-Helmholtz vortices at Earth's dayside and flank magnetopause. <i>Annales Geophysicae</i> , 2012, 30, 1025-1035.	0.6	59
164	Dayside magnetic topology at the Earth's magnetopause for northward IMF. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	36
165	Multispacecraft observation of magnetic cloud erosion by magnetic reconnection during propagation. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	143
166	The proton pressure tensor as a new proxy of the proton decoupling region in collisionless magnetic reconnection. <i>Annales Geophysicae</i> , 2011, 29, 1571-1579.	0.6	16
167	Magnetopause reconnection across wide local time. <i>Annales Geophysicae</i> , 2011, 29, 1683-1697.	0.6	57
168	Extended Magnetic Reconnection across the Dayside Magnetopause. <i>Physical Review Letters</i> , 2011, 107, 025004.	2.9	41
169	Interplanetary magnetic field rotations followed from L1 to the ground: the response of the Earth's magnetosphere as seen by multi-spacecraft and ground-based observations. <i>Annales Geophysicae</i> , 2011, 29, 1549-1569.	0.6	7
170	Evidence for a flux transfer event generated by multiple X-line reconnection at the magnetopause. <i>Geophysical Research Letters</i> , 2010, 37, .	1.5	126
171	Observation of a Complex Solar Wind Reconnection Exhaust from Spacecraft Separated by over 1800 R _E . <i>Solar Physics</i> , 2009, 256, 379-392.	1.0	39
172	Boundary layer plasma flows from high-latitude reconnection in the summer hemisphere for northward IMF: THEMIS multi-point observations. <i>Geophysical Research Letters</i> , 2009, 36, .	1.5	4
173	Polar cap potential saturation, dayside reconnection, and changes to the magnetosphere. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	54
174	Separatrix regions of magnetic reconnection at the magnetopause. <i>Annales Geophysicae</i> , 2009, 27, 4039-4056.	0.6	31
175	Evidence for reconnection at Saturn's magnetopause. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	94
176	Solar wind plasma entry into the magnetosphere under northward IMF conditions. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	47
177	Multispacecraft observation of electron beam in reconnection region. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	26
178	Modeling the effects of local time variation of plasma sheet properties on proton ring current energy and peak location. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	3
179	Altered solar wind-magnetosphere interaction at low Mach numbers: Coronal mass ejections. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	126
180	Observation of three distinct ion populations at the Kelvin-Helmholtz-unstable magnetopause. <i>Annales Geophysicae</i> , 2008, 26, 1559-1566.	0.6	24

#	ARTICLE	IF	CITATIONS
181	Transport of plasma sheet material to the inner magnetosphere. <i>Geophysical Research Letters</i> , 2007, 34, .	1.5	15
182	Modeling the effects of cold-dense and hot-tenuous plasma sheet on proton ring current energy and peak location. <i>Geophysical Research Letters</i> , 2007, 34, .	1.5	28
183	Strong bulk plasma acceleration in Earth's magnetosheath: A magnetic slingshot effect?. <i>Geophysical Research Letters</i> , 2007, 34, .	1.5	61
184	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
185	Dependence of flux transfer events on solar wind conditions from 3 years of Cluster observations. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	43
186	Geomagnetic storms driven by ICME- and CIR-dominated solar wind. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	199
187	Magnetosphere preconditioning under northward IMF: Evidence from the study of coronal mass ejection and corotating interaction region geoeffectiveness. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	72
188	Observation of two distinct cold, dense ion populations at geosynchronous orbit: local time asymmetry, solar wind dependence and origin. <i>Annales Geophysicae</i> , 2006, 24, 3451-3465.	0.6	18
189	Cluster observations of reconnection due to the Kelvin-Helmholtz instability at the dawnside magnetospheric flank. <i>Annales Geophysicae</i> , 2006, 24, 2619-2643.	0.6	143
190	Origin of the turbulent spectra in the high-altitude cusp: Cluster spacecraft observations. <i>Annales Geophysicae</i> , 2006, 24, 1057-1075.	0.6	45
191	Cluster Observes the High-Altitude CUSP Region. <i>Surveys in Geophysics</i> , 2005, 26, 135-175.	2.1	34
192	Coordinated Cluster/Double Star observations of dayside reconnection signatures. <i>Annales Geophysicae</i> , 2005, 23, 2867-2875.	0.6	47
193	Superposed epoch analysis of dense plasma access to geosynchronous orbit. <i>Annales Geophysicae</i> , 2005, 23, 2519-2529.	0.6	35
194	High-altitude cusp flow dependence on IMF orientation: A 3-year Cluster statistical study. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	110
195	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
196	Initial results of high-latitude magnetopause and low-latitude flank flux transfer events from 3 years of Cluster observations. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	52
197	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
198	Intermittent thermal plasma acceleration linked to sporadic motions of the magnetopause, first Cluster results. <i>Annales Geophysicae</i> , 2001, 19, 1523-1532.	0.6	53

#	ARTICLE	IF	CITATIONS
199	First multispacecraft ion measurements in and near the Earth's magnetosphere with the identical Cluster ion spectrometry (CIS) experiment. <i>Annales Geophysicae</i> , 2001, 19, 1303-1354.	0.6	1,040
200	Solar wind current sheets and deHoffmann-Teller analysis. First results from Solar Orbiter's DC electric field measurements. <i>Astronomy and Astrophysics</i> , 0, , .	2.1	13
201	A Case for Electron-Astrophysics. <i>Experimental Astronomy</i> , 0, , 1.	1.6	11