

Barbara Giles

List of Publications by Year in descending order

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492
papers

18,614
citations

20036

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521
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521
times ranked

4080
citing authors

#	ARTICLE	IF	CITATIONS
1	Solitary Magnetic Structures Developed From Gyro-Resonance With Solar Wind Ions at Mars and Earth. <i>Geophysical Research Letters</i> , 2022, 49, .	1.5	7
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	Lower hybrid drift wave motion at a dayside magnetopause x-line with energy conversion dominated by a parallel electric field. <i>Physics of Plasmas</i> , 2022, 29, 012905.	0.7	3
4	Transport Path of Cold-Dense Plasmas in the Dusk Magnetotail Plasma Sheet: MMS Observations. <i>Journal of Geophysical Research: Space Physics</i> , 2022, 127, .	0.8	3
5	Millisecond observations of nonlinear wave-electron interaction in electron phase space holes. <i>Physics of Plasmas</i> , 2022, 29, .	0.7	3
6	Theory, observations, and simulations of kinetic entropy in a magnetotail electron diffusion region. <i>Physics of Plasmas</i> , 2022, 29, .	0.7	7
7	A Systematic Look at the Temperature Gradient Contribution to the Dayside Magnetopause Current. <i>Geophysical Research Letters</i> , 2022, 49, .	1.5	2
8	Cross-scale Dynamics Driven by Plasma Jet Braking in Space. <i>Astrophysical Journal</i> , 2022, 926, 198.	1.6	13
9	Electron-Only Reconnection as a Transition Phase From Quiet Magnetotail Current Sheets to Traditional Magnetotail Reconnection. <i>Journal of Geophysical Research: Space Physics</i> , 2022, 127, .	0.8	10
10	$H^{\langle \sup \rangle + \langle /sup \rangle}$ Pitch Angle Distributions in the Outer Magnetosphere Observed by MMS HPCA. <i>Journal of Geophysical Research: Space Physics</i> , 2022, 127, .	0.8	2
11	Lower-Hybrid Wave Structures and Interactions With Electrons Observed in Magnetotail Reconnection Diffusion Regions. <i>Journal of Geophysical Research: Space Physics</i> , 2022, 127, .	0.8	8
12	Fine Structures of the Electron Current Sheet in Magnetotail Guide-Field Reconnection. <i>Geophysical Research Letters</i> , 2022, 49, .	1.5	5
13	Multiple Reconnection X-Lines at the Magnetopause and Overlapping Cusp Ion Injections. <i>Journal of Geophysical Research: Space Physics</i> , 2022, 127, .	0.8	4
14	Electron energization and thermal to non-thermal energy partition during earth's magnetotail reconnection. <i>Physics of Plasmas</i> , 2022, 29, .	0.7	7
15	The EDR inflow region of a reconnecting current sheet in the geomagnetic tail. <i>Physics of Plasmas</i> , 2022, 29, .	0.7	3
16	Electron Kinetic Entropy across Quasi-Perpendicular Shocks. <i>Entropy</i> , 2022, 24, 745.	1.1	3
17	On the Occurrence of Magnetic Reconnection Along the Terrestrial Magnetopause, Using Magnetospheric Multiscale (MMS) Observations in Proximity to the Reconnection Site. <i>Journal of Geophysical Research: Space Physics</i> , 2022, 127, .	0.8	3
18	Direct observations of anomalous resistivity and diffusion in collisionless plasma. <i>Nature Communications</i> , 2022, 13, .	5.8	15

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19	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
20	Hybrid Kinetic Model of the Interaction Between the Dense Plasma Clouds and Magnetospheric Plasma on Large Time and Spatial Scales, and Comparison With MMS Observations. <i>Journal of Geophysical Research: Space Physics</i> , 2022, 127, .	0.8	0
21	Three-Dimensional Electron-Scale Magnetic Reconnection in Earth's Magnetosphere. <i>Geophysical Research Letters</i> , 2021, 48, .	1.5	12
22	Comparative Analysis of the Various Generalized Ohm's Law Terms in Magnetosheath Turbulence as Observed by Magnetospheric Multiscale. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, 2020JA028447.	0.8	15
23	High-Density Magnetospheric He ⁺ at the Dayside Magnetopause and Its Effect on Magnetic Reconnection. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, .	0.8	3
24	Observations of Mirror Mode Structures in the Dawn-Side Magnetosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028649.	0.8	2
25	The Dynamics of a High Mach Number Quasi-perpendicular Shock: MMS Observations. <i>Astrophysical Journal</i> , 2021, 908, 40.	1.6	23
26	Evidence for Nonadiabatic Oxygen Energization in the Near-Earth Magnetotail From MMS. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL091697.	1.5	5
27	Particle Acceleration by Dense Impulsive Structures Moving in Ambient Magnetospheric Plasma. 3-D Hybrid Kinetic Modeling and MMS Observations. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL088590.	1.5	2
28	Electron-Only Tail Current Sheets and Their Temporal Evolution. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL091364.	1.5	15
29	MMS Observations of Reconnection Separatrix Region in the Magnetotail at Different Distances From the Active Neutral X-Line. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028694.	0.8	5
30	In Situ Evidence of Ion Acceleration between Consecutive Reconnection Jet Fronts. <i>Astrophysical Journal</i> , 2021, 908, 73.	1.6	3
31	Statistical Characteristics of Field-Aligned Currents in the Plasma Sheet Boundary Layer. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028319.	0.8	6
32	Two-Dimensional Velocity of the Magnetic Structure Observed on July 11, 2017 by the Magnetospheric Multiscale Spacecraft. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028705.	0.8	7
33	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
34	Effect of the Electric Field on the Agyrotropic Electron Distributions. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL091437.	1.5	3
35	MMS Observations of the Multiscale Wave Structures and Parallel Electron Heating in the Vicinity of the Southern Exterior Cusp. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2019JA027698.	0.8	15
36	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

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37	Determining EMIC Wave Vector Properties Through Multi-Point Measurements: The Wave Curl Analysis. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028922.	0.8	10
38	Long and Active Magnetopause Reconnection X-Lines During Changing IMF Conditions. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028926.	0.8	8
39	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
40	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
41	Energy Dissipation via Magnetic Reconnection Within the Coherent Structures of the Magnetosheath Turbulence. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028860.	0.8	11
42	Energy Transfer Between Hot Protons and Electromagnetic Ion Cyclotron Waves in Compressional Pc5 Ultra-low Frequency Waves. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028912.	0.8	6
43	Direct Multipoint Observations Capturing the Reformation of a Supercritical Fast Magnetosonic Shock. <i>Astrophysical Journal Letters</i> , 2021, 911, L31.	3.0	6
44	Origin of Electron-Scale Magnetic Fluctuations Close to an Electron Diffusion Region. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA029046.	0.8	1
45	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
46	Ion Acceleration Efficiency at the Earth's Bow Shock: Observations and Simulation Results. <i>Astrophysical Journal</i> , 2021, 914, 82.	1.6	7
47	Statistical Survey of Collisionless Dissipation in the Terrestrial Magnetosheath. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA029000.	0.8	12
48	Comparison of MMS Observations of Foreshock Bubbles With a Global Hybrid Simulation. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028848.	0.8	5
49	Calibrating Electrostatic Deflection of Charged Particle Sensors Using Ambient Plasma Measurements. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2021JA029149.	0.8	2
50	Characteristics of Resonant Electrons Interacting With Whistler Waves in the Nearest Dipolarizing Magnetotail. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2021JA029440.	0.8	9
51	Electrostatic Solitary Waves in the Earth's Bow Shock: Nature, Properties, Lifetimes, and Origin. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2021JA029357.	0.8	20
52	Structures in the terms of the Vlasov equation observed at Earth's magnetopause. <i>Nature Physics</i> , 2021, 17, 1056-1065.	6.5	15
53	Observation of Nonuniform Energy Dissipation in the Electron Diffusion Region of Magnetopause Reconnection. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL091928.	1.5	3
54	Upper-Hybrid Waves Driven by Meandering Electrons Around Magnetic Reconnection X Line. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL093164.	1.5	13

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55	Energy Flux Densities at Dipolarization Fronts. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL094932.	1.5	10
56	A statistical study of three-second foreshock ULF waves observed by the Magnetospheric Multiscale mission. <i>Physics of Plasmas</i> , 2021, 28, .	0.7	6
57	TRICE 2 Observations of Low-Energy Magnetospheric Ions Within the Cusp. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2021JA029382.	0.8	4
58	Anomalous Reconnection Layer at Earth's Dayside Magnetopause. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2021JA029678.	0.8	1
59	A Study of the Solar Wind Ion and Electron Measurements From the Magnetospheric Multiscale Mission's Fast Plasma Investigation. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2021JA029784.	0.8	7
60	Remote Sensing of Magnetic Reconnection in the Magnetotail Using In Situ Multipoint Observations at the Plasma Sheet Boundary Layer. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, .	0.8	4
61	Solitary Magnetic Structures at Quasi-Parallel Collisionless Shocks: Formation. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL090800.	1.5	21
62	The Key Role of Cold Ionospheric Ions As a Source of Hot Magnetospheric Plasma and As a Driver of the Dynamics of Substorms and Storms. <i>Frontiers in Astronomy and Space Sciences</i> , 2021, 8, .	1.1	3
63	Thin Current Sheet Behind the Dipolarization Front. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2021JA029518.	0.8	8
64	Multi-beam energy moments of measured compound ion velocity distributions. <i>Physics of Plasmas</i> , 2021, 28, 102305.	0.7	6
65	Reconnection X-Line Orientations at the Earth's Magnetopause. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2021JA029789.	0.8	6
66	Structure of a Perturbed Magnetic Reconnection Electron Diffusion Region in the Earth's Magnetotail. <i>Physical Review Letters</i> , 2021, 127, 215101.	2.9	15
67	Mapping MMS Observations of Solitary Waves in Earth's Magnetic Field. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2021JA029389.	0.8	1
68	Energy dissipation in turbulent reconnection. <i>Physics of Plasmas</i> , 2021, 28, .	0.7	22
69	Measurements of the Net Charge Density of Space Plasmas. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2021JA029511.	0.8	5
70	Impact Angle Control of Local Intense B_z Variations During Shock-Induced Substorms. <i>Space Weather</i> , 2021, 19, .	1.3	9
71	Spatial evolution of magnetic reconnection diffusion region structures with distance from the X-line. <i>Physics of Plasmas</i> , 2021, 28, .	0.7	3
72	Three Solar Irradiance Proxies for Aperture Photoelectron Detections in Top-Hat ESAs Coated With Ebonol. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, .	0.8	1

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73	Electron Bernstein waves driven by electron crescents near the electron diffusion region. <i>Nature Communications</i> , 2020, 11, 141.	5.8	26
74	Terrestrial Bow Shock Parameters From MMS Measurements: Dependence on Upstream and Downstream Time Ranges. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA027231.	0.8	3
75	Comparison of the Flank Magnetopause at Near-Earth and Lunar Distances: MMS and ARTEMIS Observations. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2020JA028406.	0.8	6
76	Observations of Electron-Only Magnetic Reconnection Associated With Macroscopic Magnetic Flux Ropes. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL089659.	1.5	13
77	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
78	Propagating and Dynamic Properties of Magnetic Dips in the Dayside Magnetosheath: MMS Observations. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA026736.	0.8	22
79	Kinetic-scale Flux Rope in the Magnetosheath Boundary Layer. <i>Astrophysical Journal</i> , 2020, 897, 137.	1.6	16
80	Interplanetary Shock Impact Angles Control Magnetospheric ULF Wave Activity: Wave Amplitude, Frequency, and Power Spectra. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL090857.	1.5	13
81	A Case Study of Nonresonant Mode 3 ULF Waves Observed by MMS. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2020JA028557.	0.8	5
82	Magnetospheric Multiscale Observation of an Electron Diffusion Region at High Latitudes. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL087268.	1.5	8
83	Microscopic, Multipoint Characterization of Foreshock Bubbles With Magnetospheric Multiscale (MMS). <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA027707.	0.8	40
84	Magnetotail reconnection onset caused by electron kinetics with a strong external driver. <i>Nature Communications</i> , 2020, 11, 5049.	5.8	75
85	Lower Hybrid Waves at the Magnetosheath Separatrix Region. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL089880.	1.5	6
86	The 18 November 2015 Magnetopause Crossing: The GEM Dayside Kinetic Challenge Event Observed by MMS/HPCA. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA027617.	0.8	7
87	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
88	MMS SITL Ground Loop: Automating the Burst Data Selection Process. <i>Frontiers in Astronomy and Space Sciences</i> , 2020, 7, 54.	1.1	16
89	Neutral Atom Imaging of the Solar Wind-Magnetosphere-Exosphere Interaction Near the Subsolar Magnetopause. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL089362.	1.5	14
90	MMS Observation of Secondary Magnetic Reconnection Beside Ion-Scale Flux Rope at the Magnetopause. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL089075.	1.5	8

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91	Electron Inflow Velocities and Reconnection Rates at Earth's Magnetopause and Magnetosheath. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL089082.	1.5	23
92	Estimation of the Electron Density From Spacecraft Potential During High-Frequency Electric Field Fluctuations. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2020JA027854.	0.8	6
93	Multisatellite MMS Analysis of Electron Holes in the Earth's Magnetotail: Origin, Properties, Velocity Gap, and Transverse Instability. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2020JA028066.	0.8	31
94	Charge-State-Dependent Energization of Suprathermal Ions During Substorm Injections Observed by MMS in the Magnetotail. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2020JA028144.	0.8	8
95	Observation of an inertial-range energy cascade within a reconnection jet in the Earth's magnetotail. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2020, 500, L6-L10.	1.2	7
96	Physical Implication of Two Types of Reconnection Electron Diffusion Regions With and Without Ion-Coupling in the Magnetotail Current Sheet. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL088761.	1.5	20
97	Statistical Study of Oxygen Ions Abundance and Spatial Distribution in the Dayside Magnetopause Boundary Layer: MMS Observations. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA027323.	0.8	4
98	Magnetospheric Multiscale observations of energetic oxygen ions at the duskside magnetopause during intense substorms. <i>Annales Geophysicae</i> , 2020, 38, 123-135.	0.6	2
99	Neural Network Repair of Lossy Compression Artifacts in the September 2015 to March 2016 Duration of the MMS/FPI Data Set. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA027181.	0.8	2
100	Observations of the Source Region of Whistler Mode Waves in Magnetosheath Mirror Structures. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA027488.	0.8	12
101	Parallel Electrostatic Waves Associated With Turbulent Plasma Mixing in the Kelvin-Helmholtz Instability. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL087837.	1.5	7
102	<i>In Situ</i> Observation of Hall Magnetohydrodynamic Cascade in Space Plasma. <i>Physical Review Letters</i> , 2020, 124, 225101.	2.9	43
103	Intermittency and Ion Temperature Anisotropy Instabilities: Simulation and Magnetosheath Observation. <i>Astrophysical Journal</i> , 2020, 895, 83.	1.6	10
104	Characteristics of Minor Ions and Electrons in Flux Transfer Events Observed by the Magnetospheric Multiscale Mission. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2020JA027778.	0.8	8
105	Direct Evidence for Electron Acceleration Within Ion-Scale Flux Rope. <i>Geophysical Research Letters</i> , 2020, 47, e2019GL085141.	1.5	44
106	Shock Drift Acceleration of Ions in an Interplanetary Shock Observed by MMS. <i>Astrophysical Journal Letters</i> , 2020, 891, L26.	3.0	6
107	Extension of the Electron Diffusion Region in a Guide Field Magnetic Reconnection at Magnetopause. <i>Astrophysical Journal Letters</i> , 2020, 892, L5.	3.0	10
108	Cluster and MMS Simultaneous Observations of Magnetosheath High Speed Jets and Their Impact on the Magnetopause. <i>Frontiers in Astronomy and Space Sciences</i> , 2020, 6, .	1.1	18

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109	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
110	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
111	Statistics of Kinetic Dissipation in the Earth's Magnetosheath: MMS Observations. <i>Physical Review Letters</i> , 2020, 124, 255101.	2.9	41
112	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
113	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
114	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
115	Characteristics of Escaping Magnetospheric Ions Associated With Magnetic Field Fluctuations. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA027337.	0.8	2
116	First Measurements of Electrons and Waves inside an Electrostatic Solitary Wave. <i>Physical Review Letters</i> , 2020, 124, 095101.	2.9	32
117	Observational Evidence for Stochastic Shock Drift Acceleration of Electrons at the Earth's Bow Shock. <i>Physical Review Letters</i> , 2020, 124, 065101.	2.9	42
118	Asymmetric Reconnection Within a Flux Rope-Type Dipolarization Front. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA027296.	0.8	7
119	A New Method of 3D Magnetic Field Reconstruction. <i>Geophysical Research Letters</i> , 2020, 47, e2019GL085542.	1.5	29
120	Electron Heating by Debye-Scale Turbulence in Guide-Field Reconnection. <i>Physical Review Letters</i> , 2020, 124, 045101.	2.9	31
121	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
122	Contribution of Anisotropic Electron Current to the Magnetotail Current Sheet as a Function of Location and Plasma Conditions. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA027251.	0.8	12
123	Electrostatic Turbulence and Debye-scale Structures in Collisionless Shocks. <i>Astrophysical Journal Letters</i> , 2020, 889, L9.	3.0	34
124	Polynomial Reconstruction of the Reconnection Magnetic Field Observed by Multiple Spacecraft. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA027481.	0.8	38
125	Electron Acceleration and Thermalization at Magnetotail Separatrices. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA027440.	0.8	21
126	Magnetic Reconnection Inside a Flux Rope Induced by Kelvin-Helmholtz Vortices. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA027665.	0.8	26

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127	In Situ Measurement of Curvature of Magnetic Field in Turbulent Space Plasmas: A Statistical Study. <i>Astrophysical Journal Letters</i> , 2020, 893, L25.	3.0	11
128	Electron Mixing and Isotropization in the Exhaust of Asymmetric Magnetic Reconnection With a Guide Field. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL087159.	1.5	4
129	Magnetic Reconnection Inside a Flux Transfer Eventâ€Like Structure in Magnetopause Kelvinâ€Helmholtz Waves. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA027527.	0.8	10
130	Sequential Observations of Flux Transfer Events, Polewardâ€Moving Auroral Forms, and Polar Cap Patches. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA027674.	0.8	12
131	Energy Flux Densities near the Electron Dissipation Region in Asymmetric Magnetopause Reconnection. <i>Physical Review Letters</i> , 2020, 125, 265102.	2.9	17
132	Particle Acceleration in Strong Turbulence in the Earthâ€™s Magnetotail. <i>Astrophysical Journal</i> , 2020, 898, 153.	1.6	27
133	Observations of Particle Acceleration in Magnetic Reconnectionâ€driven Turbulence. <i>Astrophysical Journal</i> , 2020, 898, 154.	1.6	36
134	Ion-scale Current Structures in Short Large-amplitude Magnetic Structures. <i>Astrophysical Journal</i> , 2020, 898, 121.	1.6	12
135	Direct Measurement of the Solar-wind Taylor Microscale Using MMS Turbulence Campaign Data. <i>Astrophysical Journal</i> , 2020, 899, 63.	1.6	21
136	Scaling and Anisotropy of Solar Wind Turbulence at Kinetic Scales during the MMS Turbulence Campaign. <i>Astrophysical Journal</i> , 2020, 903, 127.	1.6	9
137	Electron Energization and Energy Dissipation in Microscale Electromagnetic Environments. <i>Astrophysical Journal Letters</i> , 2020, 899, L31.	3.0	10
138	Monitoring the Spatio-temporal Evolution of a Reconnection X-line in Space. <i>Astrophysical Journal Letters</i> , 2020, 899, L34.	3.0	18
139	Observation of Energy Conversion Near the X-line in Asymmetric Guide-field Reconnection. <i>Astrophysical Journal Letters</i> , 2020, 895, L10.	3.0	2
140	Substormâ€Related Nearâ€Earth Reconnection Surge: Combining Telescopic and Microscopic Views. <i>Geophysical Research Letters</i> , 2019, 46, 6239-6247.	1.5	1
141	Electron Vorticity Indicative of the Electron Diffusion Region of Magnetic Reconnection. <i>Geophysical Research Letters</i> , 2019, 46, 6287-6296.	1.5	23
142	Evidence of Electron Acceleration at a Reconnecting Magnetopause. <i>Geophysical Research Letters</i> , 2019, 46, 5645-5652.	1.5	41
143	<i>Magnetospheric Multiscale</i> Mission Observations of Reconnecting Electric Fields in the Magnetotail on Kinetic Scales. <i>Geophysical Research Letters</i> , 2019, 46, 10295-10302.	1.5	5
144	Velocity Rotation Events in the Outer Magnetosphere Near the Magnetopause. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 4137-4156.	0.8	3

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145	Sign Singularity of the Local Energy Transfer in Space Plasma Turbulence. <i>Frontiers in Physics</i> , 2019, 7, .	1.0	9
146	Investigation of Mass/Charge-Dependent Escape of Energetic Ions Across the Magnetopauses of Earth and Jupiter. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 5539-5567.	0.8	15
147	Continent-Wide R1/R2 Current System and Ohmic Losses by Broad Dipolarization-Injection Fronts. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 4064-4082.	0.8	5
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