

# J L Burch

## List of Publications by Year in Descending Order

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

438  
papers

13,333  
citations

55  
h-index

94  
g-index

477  
ext. papers

15,606  
ext. citations

5.2  
avg, IF

6.26  
L-index

#	Paper	IF	Citations
438	Investigation of the homogeneity of energy conversion processes at dipolarization fronts from MMS measurements. <i>Physics of Plasmas</i> , <b>2022</b> , 29, 012906	2.1	1
437	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> , <b>2022</b> , 29, 012905	2.1	2
436	Millisecond observations of nonlinear wave-electron interaction in electron phase space holes. <i>Physics of Plasmas</i> , <b>2022</b> , 29, 012309	2.1	2
435	Theory, observations, and simulations of kinetic entropy in a magnetotail electron diffusion region. <i>Physics of Plasmas</i> , <b>2022</b> , 29, 022902	2.1	2
434	Cross-scale Dynamics Driven by Plasma Jet Braking in Space. <i>Astrophysical Journal</i> , <b>2022</b> , 926, 198	4.7	5
433	Electron-Only Reconnection as a Transition Phase From Quiet Magnetotail Current Sheets to Traditional Magnetotail Reconnection. <i>Journal of Geophysical Research: Space Physics</i> , <b>2022</b> , 127,	2.6	2
432	Fine Structures of the Electron Current Sheet in Magnetotail Guide-Field Reconnection. <i>Geophysical Research Letters</i> , <b>2022</b> , 49,	4.9	1
431	Electron energization and thermal to non-thermal energy partition during earth's magnetotail reconnection. <i>Physics of Plasmas</i> , <b>2022</b> , 29, 052904	2.1	1
430	The EDR inflow region of a reconnecting current sheet in the geomagnetic tail. <i>Physics of Plasmas</i> , <b>2022</b> , 29, 052903	2.1	1
429	MMS Observations of Double Mid-Latitude Reconnection Ion Beams in the Early Non-Linear Phase of the Kelvin-Helmholtz Instability. <i>Frontiers in Astronomy and Space Sciences</i> , <b>2021</b> , 8,	3.8	1
428	Reconnection X-Line Orientations at the Earth's Magnetopause. <i>Journal of Geophysical Research: Space Physics</i> , <b>2021</b> , 126, e2021JA029789	2.6	0
427	Structure of a Perturbed Magnetic Reconnection Electron Diffusion Region in the Earth's Magnetotail. <i>Physical Review Letters</i> , <b>2021</b> , 127, 215101	7.4	5
426	Mapping MMS Observations of Solitary Waves in Earth's Magnetic Field. <i>Journal of Geophysical Research: Space Physics</i> , <b>2021</b> , 126, e2021JA029389	2.6	
425	Energy dissipation in turbulent reconnection. <i>Physics of Plasmas</i> , <b>2021</b> , 28, 112305	2.1	7
424	Measurements of the Net Charge Density of Space Plasmas. <i>Journal of Geophysical Research: Space Physics</i> , <b>2021</b> , 126, e2021JA029511	2.6	0
423	Spatial evolution of magnetic reconnection diffusion region structures with distance from the X-line. <i>Physics of Plasmas</i> , <b>2021</b> , 28, 122901	2.1	2
422	The Occurrence and Prevalence of Time Domain Structures in the Kelvin-Helmholtz Instability at Different Positions Along the Earth's Magnetospheric Flanks. <i>Frontiers in Astronomy and Space Sciences</i> , <b>2021</b> , 8,	3.8	1

421	Thin Current Sheet Behind the Dipolarization Front. <i>Journal of Geophysical Research: Space Physics</i> , <b>2021</b> , 126, e2021JA029518	2.6	1
420	Multi-beam energy moments of measured compound ion velocity distributions. <i>Physics of Plasmas</i> , <b>2021</b> , 28, 102305	2.1	2
419	Effect of the Electric Field on the Agyrotropic Electron Distributions. <i>Geophysical Research Letters</i> , <b>2021</b> , 48, e2020GL091437	4.9	1
418	MMS Observation on the Cross-Tail Current Sheet Roll-up at the Dipolarization Front. <i>Journal of Geophysical Research: Space Physics</i> , <b>2021</b> , 126, e2020JA028796	2.6	0
417	Multi-instrument analysis of far-ultraviolet aurora in the southern hemisphere of comet 67P/Churyumov-Gerasimenko. <i>Astronomy and Astrophysics</i> , <b>2021</b> , 647, A119	5.1	2
416	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> , <b>2021</b> , 126, e2019JA027698	2.6	3
415	Statistical Relationship Between Interplanetary Magnetic Field Conditions and the Helicity Sign of Flux Transfer Event Flux Ropes. <i>Geophysical Research Letters</i> , <b>2021</b> , 48, e2020GL091257	4.9	1
414	Determining EMIC Wave Vector Properties Through Multi-Point Measurements: The Wave Curl Analysis. <i>Journal of Geophysical Research: Space Physics</i> , <b>2021</b> , 126, e2020JA028922	2.6	2
413	Long and Active Magnetopause Reconnection X-Lines During Changing IMF Conditions. <i>Journal of Geophysical Research: Space Physics</i> , <b>2021</b> , 126, e2020JA028926	2.6	2
412	Birth of a Magnetosphere. <i>Geophysical Monograph Series</i> , <b>2021</b> , 427-439	1.1	1
411	Kinetic Interaction of Cold and Hot Protons With an Oblique EMIC Wave Near the Dayside Reconnecting Magnetopause. <i>Geophysical Research Letters</i> , <b>2021</b> , 48, e2021GL092376	4.9	3
410	Electron Trapping in Magnetic Mirror Structures at the Edge of Magnetopause Flux Ropes. <i>Journal of Geophysical Research: Space Physics</i> , <b>2021</b> , 126, e2021JA029182	2.6	1
409	Energy Dissipation via Magnetic Reconnection Within the Coherent Structures of the Magnetosheath Turbulence. <i>Journal of Geophysical Research: Space Physics</i> , <b>2021</b> , 126, e2020JA028860	2.6	1
408	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> , <b>2021</b> , 126, e2020JA028912	2.6	2
407	Exploring Small Scales with MMS. <i>Geophysical Monograph Series</i> , <b>2021</b> , 657-671	1.1	
406	Direct Multipoint Observations Capturing the Reformation of a Supercritical Fast Magnetosonic Shock. <i>Astrophysical Journal Letters</i> , <b>2021</b> , 911, L31	7.9	3
405	Origin of Electron-Scale Magnetic Fluctuations Close to an Electron Diffusion Region. <i>Journal of Geophysical Research: Space Physics</i> , <b>2021</b> , 126, e2020JA029046	2.6	
404	Identification of Electron Diffusion Regions with a Machine Learning Approach on MMS Data at the Earth's Magnetopause. <i>Earth and Space Science</i> , <b>2021</b> , 8, e2020EA001530	3.1	3

403	Collisionless relaxation of a disequilibrated current sheet and implications for bifurcated structures. <i>Nature Communications</i> , <b>2021</b> , 12, 3774	17.4	2
402	Statistical Survey of Collisionless Dissipation in the Terrestrial Magnetosheath. <i>Journal of Geophysical Research: Space Physics</i> , <b>2021</b> , 126, e2020JA029000	2.6	4
401	Microscale Processes Determining Macroscale Evolution of Magnetic Flux Tubes along Earth's Magnetopause. <i>Astrophysical Journal</i> , <b>2021</b> , 914, 26	4.7	1
400	Comparison of MMS Observations of Foreshock Bubbles With a Global Hybrid Simulation. <i>Journal of Geophysical Research: Space Physics</i> , <b>2021</b> , 126, e2020JA028848	2.6	1
399	Characteristics of Energetic Electrons Near Active Magnetotail Reconnection Sites: Statistical Evidence for Local Energization. <i>Geophysical Research Letters</i> , <b>2021</b> , 48, e2020GL090087	4.9	4
398	Characteristics of Energetic Electrons Near Active Magnetotail Reconnection Sites: Tracers of a Complex Magnetic Topology and Evidence of Localized Acceleration. <i>Geophysical Research Letters</i> , <b>2021</b> , 48, e2020GL090089	4.9	5
397	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> , <b>2021</b> , 126, 2020JA028447	2.6	4
396	High-Density Magnetospheric He <sup>+</sup> at the Dayside Magnetopause and Its Effect on Magnetic Reconnection. <i>Journal of Geophysical Research: Space Physics</i> , <b>2021</b> , 126,	2.6	1
395	A New Look at the Electron Diffusion Region in Asymmetric Magnetic Reconnection. <i>Journal of Geophysical Research: Space Physics</i> , <b>2021</b> , 126, e2020JA028456	2.6	3
394	Observations of Mirror Mode Structures in the Dawn-Side Magnetosphere. <i>Journal of Geophysical Research: Space Physics</i> , <b>2021</b> , 126, e2020JA028649	2.6	0
393	The Dynamics of a High Mach Number Quasi-perpendicular Shock: MMS Observations. <i>Astrophysical Journal</i> , <b>2021</b> , 908, 40	4.7	11
392	Evidence for Nonadiabatic Oxygen Energization in the Near-Earth Magnetotail From MMS. <i>Geophysical Research Letters</i> , <b>2021</b> , 48, e2020GL091697	4.9	2
391	Electron-Only Tail Current Sheets and Their Temporal Evolution. <i>Geophysical Research Letters</i> , <b>2021</b> , 48, e2020GL091364	4.9	8
390	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> , <b>2021</b> , 126, e2020JA028694	2.6	1
389	A Possible Mechanism on the Detachment Between a Subauroral Proton Arc and the Auroral Oval. <i>Journal of Geophysical Research: Space Physics</i> , <b>2021</b> , 126, e2020JA028493	2.6	3
388	In Situ Evidence of Ion Acceleration between Consecutive Reconnection Jet Fronts. <i>Astrophysical Journal</i> , <b>2021</b> , 908, 73	4.7	2
387	Statistical Characteristics of Field-Aligned Currents in the Plasma Sheet Boundary Layer. <i>Journal of Geophysical Research: Space Physics</i> , <b>2021</b> , 126, e2020JA028319	2.6	4
386	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> , <b>2021</b> , 126, e2020JA028705	2.6	2

385	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> , <b>2021</b> , 126, e2020JA028903	2.6	3
384	Multipoint Density Measurements of Geocoronal Pickup Ions. <i>Geophysical Research Letters</i> , <b>2021</b> , 48, e2021GL093695	4.9	0
383	Upper-Hybrid Waves Driven by Meandering Electrons Around Magnetic Reconnection X Line. <i>Geophysical Research Letters</i> , <b>2021</b> , 48, e2021GL093164	4.9	3
382	Nonlinear Magnetic Gradients and Complete Magnetic Geometry From Multispacecraft Measurements. <i>Journal of Geophysical Research: Space Physics</i> , <b>2021</b> , 126, e2020JA028846	2.6	1
381	Energy Flux Densities at Dipolarization Fronts. <i>Geophysical Research Letters</i> , <b>2021</b> , 48, e2021GL094932	4.9	6
380	TRICE 2 Observations of Low-Energy Magnetospheric Ions Within the Cusp. <i>Journal of Geophysical Research: Space Physics</i> , <b>2021</b> , 126, e2021JA029382	2.6	1
379	Anomalous Reconnection Layer at Earth's Dayside Magnetopause. <i>Journal of Geophysical Research: Space Physics</i> , <b>2021</b> , 126, e2021JA029678	2.6	1
378	Solitary Magnetic Structures at Quasi-Parallel Collisionless Shocks: Formation. <i>Geophysical Research Letters</i> , <b>2021</b> , 48, e2020GL090800	4.9	6
377	Application of Cold and Hot Plasma Composition Measurements to Investigate Impacts on Dusk-Side Electromagnetic Ion Cyclotron Waves. <i>Journal of Geophysical Research: Space Physics</i> , <b>2021</b> , 126,	2.6	2
376	Charge-State-Dependent Energization of Suprathermal Ions During Substorm Injections Observed by MMS in the Magnetotail. <i>Journal of Geophysical Research: Space Physics</i> , <b>2020</b> , 125, e2020JA028144	2.6	3
375	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> , <b>2020</b> , 500, L6-L10	4.3	2
374	Self-consistent kinetic model of nested electron- and ion-scale magnetic cavities in space plasmas. <i>Nature Communications</i> , <b>2020</b> , 11, 5616	17.4	8
373	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> , <b>2020</b> , 47, e2020GL088761	4.9	4
372	The Effects of Upper-Hybrid Waves on Energy Dissipation in the Electron Diffusion Region. <i>Geophysical Research Letters</i> , <b>2020</b> , 47, e2020GL089778	4.9	1
371	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> , <b>2020</b> , 125, e2019JA027323 <sup>2</sup>	2.6	2
370	Magnetospheric Multiscale observations of energetic oxygen ions at the duskside magnetopause during intense substorms. <i>Annales Geophysicae</i> , <b>2020</b> , 38, 123-135	2	1
369	Observations of the Source Region of Whistler Mode Waves in Magnetosheath Mirror Structures. <i>Journal of Geophysical Research: Space Physics</i> , <b>2020</b> , 125, e2019JA027488	2.6	5
368	Parallel Electrostatic Waves Associated With Turbulent Plasma Mixing in the Kelvin-Helmholtz Instability. <i>Geophysical Research Letters</i> , <b>2020</b> , 47, e2020GL087837	4.9	3

367	In Situ Observation of Hall Magnetohydrodynamic Cascade in Space Plasma. <i>Physical Review Letters</i> , <b>2020</b> , 124, 225101	7.4	26
366	Intermittency and Ion Temperature Anisotropy Instabilities: Simulation and Magnetosheath Observation. <i>Astrophysical Journal</i> , <b>2020</b> , 895, 83	4.7	4
365	Characteristics of Minor Ions and Electrons in Flux Transfer Events Observed by the Magnetospheric Multiscale Mission. <i>Journal of Geophysical Research: Space Physics</i> , <b>2020</b> , 125, e2020JA027778	2.6	6
364	Direct Evidence for Electron Acceleration Within Ion-Scale Flux Rope. <i>Geophysical Research Letters</i> , <b>2020</b> , 47, e2019GL085141	4.9	23
363	Extension of the Electron Diffusion Region in a Guide Field Magnetic Reconnection at Magnetopause. <i>Astrophysical Journal Letters</i> , <b>2020</b> , 892, L5	7.9	6
362	On the Ubiquity of Magnetic Reconnection Inside Flux Transfer Event-Like Structures at the Earth's Magnetopause. <i>Geophysical Research Letters</i> , <b>2020</b> , 47, e2019GL086726	4.9	9
361	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> , <b>2020</b> , 125, e2019JA027333	2.6	4
360	Statistics of Kinetic Dissipation in the Earth's Magnetosheath: MMS Observations. <i>Physical Review Letters</i> , <b>2020</b> , 124, 255101	7.4	22
359	Lower-Hybrid Drift Waves Driving Electron Nongyrotropic Heating and Vortical Flows in a Magnetic Reconnection Layer. <i>Physical Review Letters</i> , <b>2020</b> , 125, 025103	7.4	13
358	Quantifying Event-Specific Radial Diffusion Coefficients of Radiation Belt Electrons With the PPMLR-MHD Simulation. <i>Journal of Geophysical Research: Space Physics</i> , <b>2020</b> , 125, e2019JA027634	2.6	1
357	High-Frequency Waves Driven by Agyrotropic Electrons Near the Electron Diffusion Region. <i>Geophysical Research Letters</i> , <b>2020</b> , 47, e2020GL087111	4.9	4
356	Characteristics of Escaping Magnetospheric Ions Associated With Magnetic Field Fluctuations. <i>Journal of Geophysical Research: Space Physics</i> , <b>2020</b> , 125, e2019JA027337	2.6	0
355	First Measurements of Electrons and Waves inside an Electrostatic Solitary Wave. <i>Physical Review Letters</i> , <b>2020</b> , 124, 095101	7.4	18
354	Simultaneous Observation of Negatively and Positively Charged Nanograins at Comet 67P/Churyumov-Gerasimenko. <i>Geophysical Research Letters</i> , <b>2020</b> , 47, e2019GL086147	4.9	3
353	Asymmetric Reconnection Within a Flux Rope-Type Dipolarization Front. <i>Journal of Geophysical Research: Space Physics</i> , <b>2020</b> , 125, e2019JA027296	2.6	3
352	A New Method of 3-D Magnetic Field Reconstruction. <i>Geophysical Research Letters</i> , <b>2020</b> , 47, e2019GL085542	4.9	14
351	Electron Heating by Debye-Scale Turbulence in Guide-Field Reconnection. <i>Physical Review Letters</i> , <b>2020</b> , 124, 045101	7.4	16
350	BBF Deceleration Down-Tail of X Journal of Geophysical Research: Space Physics, <b>2020</b> , 125, e2019JA026837	2.6	4

349	Statistics of Reconnecting Current Sheets in the Transition Region of Earth's Bow Shock. <i>Journal of Geophysical Research: Space Physics</i> , <b>2020</b> , 125, e2019JA027119	2.6	15
348	Polynomial Reconstruction of the Reconnection Magnetic Field Observed by Multiple Spacecraft. <i>Journal of Geophysical Research: Space Physics</i> , <b>2020</b> , 125, e2019JA027481	2.6	18
347	Magnetospheric Multiscale (MMS) Observations of Magnetic Reconnection in Foreshock Transients. <i>Journal of Geophysical Research: Space Physics</i> , <b>2020</b> , 125, e2020JA027822	2.6	12
346	Electron Acceleration and Thermalization at Magnetotail Separatrices. <i>Journal of Geophysical Research: Space Physics</i> , <b>2020</b> , 125, e2019JA027440	2.6	12
345	Magnetic Reconnection Inside a Flux Rope Induced by Kelvin-Helmholtz Vortices. <i>Journal of Geophysical Research: Space Physics</i> , <b>2020</b> , 125, e2019JA027665	2.6	9
344	In Situ Measurement of Curvature of Magnetic Field in Turbulent Space Plasmas: A Statistical Study. <i>Astrophysical Journal Letters</i> , <b>2020</b> , 893, L25	7.9	6
343	Electron dynamics near diamagnetic regions of comet 67P/Churyumov-Gerasimenko. <i>Planetary and Space Science</i> , <b>2020</b> , 187, 104924	2	3
342	Electron Mixing and Isotropization in the Exhaust of Asymmetric Magnetic Reconnection With a Guide Field. <i>Geophysical Research Letters</i> , <b>2020</b> , 47, e2020GL087159	4.9	1
341	Energy Flux Densities near the Electron Dissipation Region in Asymmetric Magnetopause Reconnection. <i>Physical Review Letters</i> , <b>2020</b> , 125, 265102	7.4	7
340	Particle Acceleration in Strong Turbulence in the Earth's Magnetotail. <i>Astrophysical Journal</i> , <b>2020</b> , 898, 153	4.7	8
339	Observations of Particle Acceleration in Magnetic Reconnection-driven Turbulence. <i>Astrophysical Journal</i> , <b>2020</b> , 898, 154	4.7	13
338	Ion-scale Current Structures in Short Large-amplitude Magnetic Structures. <i>Astrophysical Journal</i> , <b>2020</b> , 898, 121	4.7	5
337	Direct Measurement of the Solar-wind Taylor Microscale Using MMS Turbulence Campaign Data. <i>Astrophysical Journal</i> , <b>2020</b> , 899, 63	4.7	9
336	Scaling and Anisotropy of Solar Wind Turbulence at Kinetic Scales during the MMS Turbulence Campaign. <i>Astrophysical Journal</i> , <b>2020</b> , 903, 127	4.7	4
335	Evolution of the Earth's Magnetosheath Turbulence: A Statistical Study Based on MMS Observations. <i>Astrophysical Journal Letters</i> , <b>2020</b> , 898, L43	7.9	8
334	Monitoring the Spatio-temporal Evolution of a Reconnection X-line in Space. <i>Astrophysical Journal Letters</i> , <b>2020</b> , 899, L34	7.9	3
333	MMS Direct Observations of Kinetic-scale Shock Self-reformation. <i>Astrophysical Journal Letters</i> , <b>2020</b> , 901, L6	7.9	5
332	Observation of Energy Conversion Near the X-line in Asymmetric Guide-field Reconnection. <i>Astrophysical Journal Letters</i> , <b>2020</b> , 895, L10	7.9	1

331	Magnetic Reconnection Inside a Flux Transfer Event-Like Structure in Magnetopause Kelvin-Helmholtz Waves. <i>Journal of Geophysical Research: Space Physics</i> , <b>2020</b> , 125, e2019JA027527	2.6	5
330	Sequential Observations of Flux Transfer Events, Poleward-Moving Auroral Forms, and Polar Cap Patches. <i>Journal of Geophysical Research: Space Physics</i> , <b>2020</b> , 125, e2019JA027674	2.6	3
329	Electron Bernstein waves driven by electron crescents near the electron diffusion region. <i>Nature Communications</i> , <b>2020</b> , 11, 141	17.4	14
328	Anisotropic Vorticity Within Bursty Bulk Flow Turbulence. <i>Journal of Geophysical Research: Space Physics</i> , <b>2020</b> , 125, e2020JA028255	2.6	2
327	Multiscale Coupling During Magnetopause Reconnection: Interface Between the Electron and Ion Diffusion Regions. <i>Journal of Geophysical Research: Space Physics</i> , <b>2020</b> , 125, e2020JA027985	2.6	3
326	Magnetospheric Multiscale Observation of an Electron Diffusion Region at High Latitudes. <i>Geophysical Research Letters</i> , <b>2020</b> , 47, e2020GL087268	4.9	2
325	Microscopic, Multipoint Characterization of Foreshock Bubbles With Magnetospheric Multiscale (MMS). <i>Journal of Geophysical Research: Space Physics</i> , <b>2020</b> , 125, e2019JA027707	2.6	25
324	Magnetotail reconnection onset caused by electron kinetics with a strong external driver. <i>Nature Communications</i> , <b>2020</b> , 11, 5049	17.4	37
323	Lower Hybrid Waves at the Magnetosheath Separatrix Region. <i>Geophysical Research Letters</i> , <b>2020</b> , 47, e2020GL089880	4.9	2
322	Far-ultraviolet aurora identified at comet 67P/Churyumov-Gerasimenko. <i>Nature Astronomy</i> , <b>2020</b> , 4, 1084-1091	17.4	14
321	The 18 November 2015 Magnetopause Crossing: The GEM Dayside Kinetic Challenge Event Observed by MMS/HPCA. <i>Journal of Geophysical Research: Space Physics</i> , <b>2020</b> , 125, e2019JA027617	2.6	4
320	MMS SITL Ground Loop: Automating the Burst Data Selection Process. <i>Frontiers in Astronomy and Space Sciences</i> , <b>2020</b> , 7, 54	3.8	8
319	Neutral Atom Imaging of the Solar Wind-Magnetosphere-Exosphere Interaction Near the Subsolar Magnetopause. <i>Geophysical Research Letters</i> , <b>2020</b> , 47, e2020GL089362	4.9	10
318	Electron Inflow Velocities and Reconnection Rates at Earth's Magnetopause and Magnetosheath. <i>Geophysical Research Letters</i> , <b>2020</b> , 47, e2020GL089082	4.9	11
317	Characteristics of the Flank Magnetopause: MMS Results. <i>Journal of Geophysical Research: Space Physics</i> , <b>2020</b> , 125, e2019JA027623	2.6	7
316	Dissipation of Earthward Propagating Flux Rope Through Re-reconnection with Geomagnetic Field: An MMS Case Study. <i>Journal of Geophysical Research: Space Physics</i> , <b>2019</b> , 124, 7477-7493	2.6	6
315	Four-Spacecraft Measurements of the Shape and Dimensionality of Magnetic Structures in the Near-Earth Plasma Environment. <i>Journal of Geophysical Research: Space Physics</i> , <b>2019</b> , 124, 6850-6868	2.6	5
314	Reconnection With Magnetic Flux Pileup at the Interface of Converging Jets at the Magnetopause. <i>Geophysical Research Letters</i> , <b>2019</b> , 46, 1937-1946	4.9	23



313	Observations of an Electron Diffusion Region in Symmetric Reconnection with Weak Guide Field. <i>Astrophysical Journal</i> , <b>2019</b> , 870, 34	4.7	53
312	Observational Evidence of Magnetic Reconnection in the Terrestrial Bow Shock Transition Region. <i>Geophysical Research Letters</i> , <b>2019</b> , 46, 562-570	4.9	28
311	Structure of the Current Sheet in the 11 July 2017 Electron Diffusion Region Event. <i>Journal of Geophysical Research: Space Physics</i> , <b>2019</b> , 124, 1173-1186	2.6	25
310	Prolonged Kelvin-Helmholtz Waves at Dawn and Dusk Flank Magnetopause: Simultaneous Observations by MMS and THEMIS. <i>Astrophysical Journal</i> , <b>2019</b> , 875, 57	4.7	6
309	Parallel Electron Heating by Tangential Discontinuity in the Turbulent Magnetosheath. <i>Astrophysical Journal Letters</i> , <b>2019</b> , 877, L16	7.9	15
308	MMS Study of the Structure of Ion-Scale Flux Ropes in the Earth's Cross-Tail Current Sheet. <i>Geophysical Research Letters</i> , <b>2019</b> , 46, 6168-6177	4.9	19
307	High-Resolution Measurements of the Cross-Shock Potential, Ion Reflection, and Electron Heating at an Interplanetary Shock by MMS. <i>Journal of Geophysical Research: Space Physics</i> , <b>2019</b> , 124, 3961-3978	2.6	28
306	Mass Loading the Earth's Dayside Magnetopause Boundary Layer and Its Effect on Magnetic Reconnection. <i>Geophysical Research Letters</i> , <b>2019</b> , 46, 6204-6213	4.9	17
305	Properties of the Turbulence Associated with Electron-only Magnetic Reconnection in Earth's Magnetosheath. <i>Astrophysical Journal Letters</i> , <b>2019</b> , 877, L37	7.9	52
304	Electron Diffusion Regions in Magnetotail Reconnection Under Varying Guide Fields. <i>Geophysical Research Letters</i> , <b>2019</b> , 46, 6230-6238	4.9	20
303	EMIC Waves in the Outer Magnetosphere: Observations of an Off-Equator Source Region. <i>Geophysical Research Letters</i> , <b>2019</b> , 46, 5707-5716	4.9	16
302	Three-Dimensional Magnetic Reconnection With a Spatially Confined X-Line Extent: Implications for Dipolarizing Flux Bundles and the Dawn-Dusk Asymmetry. <i>Journal of Geophysical Research: Space Physics</i> , <b>2019</b> , 124, 2819-2830	2.6	24
301	Carriers of the Field-Aligned Currents in the Plasma Sheet Boundary Layer: An MMS Multicase Study. <i>Journal of Geophysical Research: Space Physics</i> , <b>2019</b> , 124, 2873	2.6	5
300	Electron-Driven Dissipation in a Tailward Flow Burst. <i>Geophysical Research Letters</i> , <b>2019</b> , 46, 5698-5706	4.9	23
299	Whistler Waves Driven by Field-Aligned Streaming Electrons in the Near-Earth Magnetotail Reconnection. <i>Geophysical Research Letters</i> , <b>2019</b> , 46, 5045-5054	4.9	11
298	MMS Observations of Kinetic-size Magnetic Holes in the Terrestrial Magnetotail Plasma Sheet. <i>Astrophysical Journal</i> , <b>2019</b> , 875, 113	4.7	15
297	Energy Range of Electron Rolling Pin Distribution Behind Dipolarization Front. <i>Geophysical Research Letters</i> , <b>2019</b> , 46, 2390-2398	4.9	32
296	Crescent-Shaped Electron Distributions at the Nonreconnecting Magnetopause: Magnetospheric Multiscale Observations. <i>Geophysical Research Letters</i> , <b>2019</b> , 46, 3024-3032	4.9	11

295	Magnetospheric Multiscale Observation of Kinetic Signatures in the Alfvén Vortex. <i>Astrophysical Journal Letters</i> , <b>2019</b> , 871, L22	7.9	19
294	Evidence of Magnetic Nulls in Electron Diffusion Region. <i>Geophysical Research Letters</i> , <b>2019</b> , 46, 48-54	4.9	25
293	Observations of Flux Ropes With Strong Energy Dissipation in the Magnetotail. <i>Geophysical Research Letters</i> , <b>2019</b> , 46, 580-589	4.9	21
292	MMS observations of electron scale magnetic cavity embedded in proton scale magnetic cavity. <i>Nature Communications</i> , <b>2019</b> , 10, 1040	17.4	27
291	Impulsively Reflected Ions: A Plausible Mechanism for Ion Acoustic Wave Growth in Collisionless Shocks. <i>Journal of Geophysical Research: Space Physics</i> , <b>2019</b> , 124, 1855-1865	2.6	12
290	High-Frequency Wave Generation in Magnetotail Reconnection: Linear Dispersion Analysis. <i>Geophysical Research Letters</i> , <b>2019</b> , 46, 4089-4097	4.9	21
289	In situ spacecraft observations of a structured electron diffusion region during magnetopause reconnection. <i>Physical Review E</i> , <b>2019</b> , 99, 043204	2.4	9
288	The Space Physics Environment Data Analysis System (SPEDAS). <i>Space Science Reviews</i> , <b>2019</b> , 215, 9	7.5	205
287	Observations of Magnetic Reconnection in the Transition Region of Quasi-Parallel Shocks. <i>Geophysical Research Letters</i> , <b>2019</b> , 46, 1177-1184	4.9	31
286	Electron Distribution Functions Around a Reconnection X-Line Resolved by the FOTE Method. <i>Geophysical Research Letters</i> , <b>2019</b> , 46, 1195-1204	4.9	27
285	Substorm-Related Near-Earth Reconnection Surge: Combining Telescopic and Microscopic Views. <i>Geophysical Research Letters</i> , <b>2019</b> , 46, 6239-6247	4.9	1
284	Electron Vorticity Indicative of the Electron Diffusion Region of Magnetic Reconnection. <i>Geophysical Research Letters</i> , <b>2019</b> , 46, 6287-6296	4.9	13
283	Evidence of Electron Acceleration at a Reconnecting Magnetopause. <i>Geophysical Research Letters</i> , <b>2019</b> , 46, 5645-5652	4.9	24
282	Magnetospheric Multiscale Mission Observations of Reconnecting Electric Fields in the Magnetotail on Kinetic Scales. <i>Geophysical Research Letters</i> , <b>2019</b> , 46, 10295-10302	4.9	2
281	Sign Singularity of the Local Energy Transfer in Space Plasma Turbulence. <i>Frontiers in Physics</i> , <b>2019</b> , 7,	3.9	5
280	Investigation of Mass-/Charge-Dependent Escape of Energetic Ions Across the Magnetopauses of Earth and Jupiter. <i>Journal of Geophysical Research: Space Physics</i> , <b>2019</b> , 124, 5539-5567	2.6	12
279	High-Frequency Wave Generation in Magnetotail Reconnection: Nonlinear Harmonics of Upper Hybrid Waves. <i>Geophysical Research Letters</i> , <b>2019</b> , 46, 7873-7882	4.9	11
278	Energy Conversion and Electron Acceleration in the Magnetopause Reconnection Diffusion Region. <i>Geophysical Research Letters</i> , <b>2019</b> , 46, 10274-10282	4.9	6

277	Electron-scale Vertical Current Sheets in a Bursty Bulk Flow in the Terrestrial Magnetotail. <i>Astrophysical Journal Letters</i> , <b>2019</b> , 872, L26	7.9	11
276	A Survey of Plasma Waves Appearing Near Dayside Magnetopause Electron Diffusion Region Events. <i>Journal of Geophysical Research: Space Physics</i> , <b>2019</b> , 124, 7837-7849	2.6	11
275	MMS Measurements and Modeling of Peculiar Electromagnetic Ion Cyclotron Waves. <i>Geophysical Research Letters</i> , <b>2019</b> , 46, 11622-11631	4.9	6
274	The Extra-Magnetospheric Ion Environment as Observed by the Magnetospheric Multiscale Mission Hot Plasma Composition Analyzer (MMS-HPCA). <i>Journal of Geophysical Research: Space Physics</i> , <b>2019</b> , 124, 1509-1524	2.6	5
273	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> , <b>2019</b> , 124, 10048-10062	2.6	13
272	Stationarity of the Reconnection X-Line at Earth's Magnetopause for Southward IMF. <i>Journal of Geophysical Research: Space Physics</i> , <b>2019</b> , 124, 8524-8534	2.6	7
271	Mechanism of Reconnection on Kinetic Scales Based on Magnetospheric Multiscale Mission Observations. <i>Astrophysical Journal Letters</i> , <b>2019</b> , 885, L26	7.9	7
270	Magnetic Reconnection in Three Dimensions: Observations of Electromagnetic Drift Waves in the Adjacent Current Sheet. <i>Journal of Geophysical Research: Space Physics</i> , <b>2019</b> , 124, 10104-10118	2.6	3
269	Energy Conversion and Dissipation at Dipolarization Fronts: A Statistical Overview. <i>Geophysical Research Letters</i> , <b>2019</b> , 46, 12693-12701	4.9	24
268	Electron-Scale Magnetic Structure Observed Adjacent to an Electron Diffusion Region at the Dayside Magnetopause. <i>Journal of Geophysical Research: Space Physics</i> , <b>2019</b> , 124, 10153-10169	2.6	2
267	High-density O <sup>+</sup> in Earth's outer magnetosphere and its effect on dayside magnetopause magnetic reconnection. <i>Journal of Geophysical Research: Space Physics</i> , <b>2019</b> , 124, 10257-10269	2.6	10
266	Acceleration of Interstellar Pickup He <sup>+</sup> at Earth's Perpendicular Bow Shock. <i>Geophysical Research Letters</i> , <b>2019</b> , 46, 10735-10743	4.9	6
265	Small Spatial-Scale Field-Aligned Currents in the Plasma Sheet Boundary Layer Surveyed by Magnetosphere Multiscale Spacecraft. <i>Journal of Geophysical Research: Space Physics</i> , <b>2019</b> , 124, 9976-9985	2.6	7
264	The He <sup>++</sup> /H <sup>+</sup> Density Ratio Across Earth's Subsolar Magnetopause and Its Implications for the Presence of a Mass-Dependent Reflection Coefficient. <i>Journal of Geophysical Research: Space Physics</i> , <b>2019</b> , 124, 9893-9903	2.6	3
263	Electron Scattering by Low-frequency Whistler Waves at Earth's Bow Shock. <i>Astrophysical Journal</i> , <b>2019</b> , 886, 53	4.7	11
262	Magnetic Reconnection in Three Dimensions: Modeling and Analysis of Electromagnetic Drift Waves in the Adjacent Current Sheet. <i>Journal of Geophysical Research: Space Physics</i> , <b>2019</b> , 124, 10085-10103	2.6	11
261	Universality of Lower Hybrid Waves at Earth's Magnetopause. <i>Journal of Geophysical Research: Space Physics</i> , <b>2019</b> , 124, 8727-8760	2.6	22
260	Multispacecraft Analysis of Electron Holes. <i>Geophysical Research Letters</i> , <b>2019</b> , 46, 55-63	4.9	23

259	Reconstruction of the Electron Diffusion Region of Magnetotail Reconnection Seen by the MMS Spacecraft on 11 July 2017. <i>Journal of Geophysical Research: Space Physics</i> , <b>2019</b> , 124, 122-138	2.6	16
258	The physical foundation of the reconnection electric field. <i>Physics of Plasmas</i> , <b>2018</b> , 25, 032901	2.1	15
257	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> , <b>2018</b> , 123, 93-103	2.6	18
256	Large-Scale Survey of the Structure of the Dayside Magnetopause by MMS. <i>Journal of Geophysical Research: Space Physics</i> , <b>2018</b> , 123, 2018	2.6	16
255	Energy partitioning constraints at kinetic scales in low- turbulence. <i>Physics of Plasmas</i> , <b>2018</b> , 25,	2.1	20
254	Determining L-M-N Current Sheet Coordinates at the Magnetopause From Magnetospheric Multiscale Data. <i>Journal of Geophysical Research: Space Physics</i> , <b>2018</b> , 123, 2274	2.6	20
253	An Electron-Scale Current Sheet Without Bursty Reconnection Signatures Observed in the Near-Earth Tail. <i>Geophysical Research Letters</i> , <b>2018</b> , 45, 4542-4549	4.9	31
252	Magnetic Reconnection, Turbulence, and Particle Acceleration: Observations in the Earth's Magnetotail. <i>Geophysical Research Letters</i> , <b>2018</b> , 45, 3338-3347	4.9	40
251	Assessing the Time Dependence of Reconnection With Poynting's Theorem: MMS Observations. <i>Geophysical Research Letters</i> , <b>2018</b> , 45, 2886-2892	4.9	5
250	Evidence for Secondary Flux Rope Generated by the Electron Kelvin-Helmholtz Instability in a Magnetic Reconnection Diffusion Region. <i>Physical Review Letters</i> , <b>2018</b> , 120, 075101	7.4	28
249	MMS Examination of FTEs at the Earth's Subsolar Magnetopause. <i>Journal of Geophysical Research: Space Physics</i> , <b>2018</b> , 123, 1224-1241	2.6	31
248	Spacecraft Observations of Oblique Electron Beams Breaking the Frozen-In Law During Asymmetric Reconnection. <i>Physical Review Letters</i> , <b>2018</b> , 120, 055101	7.4	15
247	Electron Crescent Distributions as a Manifestation of Diamagnetic Drift in an Electron-Scale Current Sheet: Magnetospheric Multiscale Observations Using New 7.5 ms Fast Plasma Investigation Moments. <i>Geophysical Research Letters</i> , <b>2018</b> , 45, 578-584	4.9	39
246	On Multiple Hall-Like Electron Currents and Tripolar Guide Magnetic Field Perturbations During Kelvin-Helmholtz Waves. <i>Journal of Geophysical Research: Space Physics</i> , <b>2018</b> , 123, 1305-1324	2.6	9
245	MMS Observation of Asymmetric Reconnection Supported by 3-D Electron Pressure Divergence. <i>Journal of Geophysical Research: Space Physics</i> , <b>2018</b> , 123, 1806	2.6	24
244	MMS Observation of Shock-Reflected He <sup>++</sup> at Earth's Quasi-Perpendicular Bow Shock. <i>Geophysical Research Letters</i> , <b>2018</b> , 45, 49-55	4.9	5
243	Electron Dynamics Within the Electron Diffusion Region of Asymmetric Reconnection. <i>Journal of Geophysical Research: Space Physics</i> , <b>2018</b> , 123, 146-162	2.6	9
242	Differing Properties of Two Ion-Scale Magnetopause Flux Ropes. <i>Journal of Geophysical Research: Space Physics</i> , <b>2018</b> , 123, 114-131	2.6	7

241	Electron Jet Detected by MMS at Dipolarization Front. <i>Geophysical Research Letters</i> , <b>2018</b> , 45, 556-564	4.9	56
240	Negative Potential Solitary Structures in the Magnetosheath With Large Parallel Width. <i>Journal of Geophysical Research: Space Physics</i> , <b>2018</b> , 123, 132-145	2.6	8
239	Guide Field Reconnection: Exhaust Structure and Heating. <i>Geophysical Research Letters</i> , <b>2018</b> , 45, 4569-4577	4.9	23
238	Plasma Density Estimates From Spacecraft Potential Using MMS Observations in the Dayside Magnetosphere. <i>Journal of Geophysical Research: Space Physics</i> , <b>2018</b> , 123, 2620-2629	2.6	14
237	Localized Oscillatory Energy Conversion in Magnetopause Reconnection. <i>Geophysical Research Letters</i> , <b>2018</b> , 45, 1237-1245	4.9	31
236	Wave Phenomena and Beam-Plasma Interactions at the Magnetopause Reconnection Region. <i>Journal of Geophysical Research: Space Physics</i> , <b>2018</b> , 123, 1118-1133	2.6	13
235	In Situ Observation of Intermittent Dissipation at Kinetic Scales in the Earth's Magnetosheath. <i>Astrophysical Journal Letters</i> , <b>2018</b> , 856, L19	7.9	39
234	Magnetic Reconnection at a Thin Current Sheet Separating Two Interlaced Flux Tubes at the Earth's Magnetopause. <i>Journal of Geophysical Research: Space Physics</i> , <b>2018</b> , 123, 1779	2.6	24
233	Observations of the Electron Jet Generated by Secondary Reconnection in the Terrestrial Magnetotail. <i>Astrophysical Journal</i> , <b>2018</b> , 862, 144	4.7	30
232	The Role of the Parallel Electric Field in Electron-Scale Dissipation at Reconnecting Currents in the Magnetosheath. <i>Journal of Geophysical Research: Space Physics</i> , <b>2018</b> , 123, 6533-6547	2.6	27
231	Generation of Electron Whistler Waves at the Mirror Mode Magnetic Holes: MMS Observations and PIC Simulation. <i>Journal of Geophysical Research: Space Physics</i> , <b>2018</b> , 123, 6383-6393	2.6	19
230	Ion-Scale Kinetic Alfvén Turbulence: MMS Measurements of the Alfvén Ratio in the Magnetosheath. <i>Geophysical Research Letters</i> , <b>2018</b> , 45, 7974-7984	4.9	15
229	Energy Conversion and Collisionless Plasma Dissipation Channels in the Turbulent Magnetosheath Observed by the Magnetospheric Multiscale Mission. <i>Astrophysical Journal</i> , <b>2018</b> , 862, 32	4.7	43
228	Electron magnetic reconnection without ion coupling in Earth's turbulent magnetosheath. <i>Nature</i> , <b>2018</b> , 557, 202-206	50.4	173
227	Magnetic depression and electron transport in an ion-scale flux rope associated with Kelvin-Helmholtz waves. <i>Annales Geophysicae</i> , <b>2018</b> , 36, 879-889	2	7
226	MMS Observations of Harmonic Electromagnetic Ion Cyclotron Waves. <i>Geophysical Research Letters</i> , <b>2018</b> , 45, 8764-8772	4.9	9
225	Intense Electric Fields and Electron-Scale Substructure Within Magnetotail Flux Ropes as Revealed by the Magnetospheric Multiscale Mission. <i>Geophysical Research Letters</i> , <b>2018</b> , 45, 8783-8792	4.9	21
224	New Insights into the Nature of Turbulence in the Earth's Magnetosheath Using Magnetospheric MultiScale Mission Data. <i>Astrophysical Journal</i> , <b>2018</b> , 859, 127	4.7	21

223	Effects in the Near-Magnetopause Magnetosheath Elicited by Large-Amplitude Alfvénic Fluctuations Terminating in a Field and Flow Discontinuity. <i>Journal of Geophysical Research: Space Physics</i> , <b>2018</b> , 123, 8983-9004	2.6	1
222	Magnetospheric Multiscale Observations of Turbulence in the Magnetosheath on Kinetic Scales. <i>Astrophysical Journal Letters</i> , <b>2018</b> , 864, L29	7.9	16
221	Multiscale Currents Observed by MMS in the Flow Braking Region. <i>Journal of Geophysical Research: Space Physics</i> , <b>2018</b> , 123, 1260-1278	2.6	27
220	How Accurately Can We Measure the Reconnection Rate for the MMS Diffusion Region Event of 11 July 2017?. <i>Journal of Geophysical Research: Space Physics</i> , <b>2018</b> , 123, 9130-9149	2.6	46
219	Electron Reconnection in the Magnetopause Current Layer. <i>Journal of Geophysical Research: Space Physics</i> , <b>2018</b> , 123, 9222-9238	2.6	8
218	Magnetospheric Multiscale Dayside Reconnection Electron Diffusion Region Events. <i>Journal of Geophysical Research: Space Physics</i> , <b>2018</b> , 123, 4858-4878	2.6	60
217	Magnetospheric Multiscale Observations of an Ion Diffusion Region With Large Guide Field at the Magnetopause: Current System, Electron Heating, and Plasma Waves. <i>Journal of Geophysical Research: Space Physics</i> , <b>2018</b> , 123, 1834-1852	2.6	24
216	Plasma source and loss at comet 67P during the Rosetta mission. <i>Astronomy and Astrophysics</i> , <b>2018</b> , 618, A77	5.1	30
215	Electron Phase-Space Holes in Three Dimensions: Multispacecraft Observations by Magnetospheric Multiscale. <i>Journal of Geophysical Research: Space Physics</i> , <b>2018</b> , 123, 9963-9978	2.6	24
214	The Transition Between Antiparallel and Component Magnetic Reconnection at Earth's Dayside Magnetopause. <i>Journal of Geophysical Research: Space Physics</i> , <b>2018</b> , 123, 10,177-10,188	2.6	10
213	Electron-scale dynamics of the diffusion region during symmetric magnetic reconnection in space. <i>Science</i> , <b>2018</b> , 362, 1391-1395	33.3	139
212	Incompressible Energy Transfer in the Earth's Magnetosheath: Magnetospheric Multiscale Observations. <i>Astrophysical Journal</i> , <b>2018</b> , 866, 106	4.7	32
211	Magnetotail Hall Physics in the Presence of Cold Ions. <i>Geophysical Research Letters</i> , <b>2018</b> , 45, 10,941	4.9	9
210	Kinetic Range Spectral Features of Cross Helicity Using the Magnetospheric Multiscale Spacecraft. <i>Physical Review Letters</i> , <b>2018</b> , 121, 265101	7.4	11
209	Rippled Electron-Scale Structure of a Dipolarization Front. <i>Geophysical Research Letters</i> , <b>2018</b> , 45, 12,1164-12,1247	4.12	1247
208	Higher-Order Turbulence Statistics in the Earth's Magnetosheath and the Solar Wind Using Magnetospheric Multiscale Observations. <i>Journal of Geophysical Research: Space Physics</i> , <b>2018</b> , 123, 9941	2.6	40
207	Large-Amplitude High-Frequency Waves at Earth's Magnetopause. <i>Journal of Geophysical Research: Space Physics</i> , <b>2018</b> , 123, 2630-2657	2.6	17
206	MMS Observations of Electrostatic Waves in an Oblique Shock Crossing. <i>Journal of Geophysical Research: Space Physics</i> , <b>2018</b> , 123, 9430-9442	2.6	40

205	On the role of separatrix instabilities in heating the reconnection outflow region. <i>Physics of Plasmas</i> , <b>2018</b> , 25, 122902	2.1	23
204	The two-fluid dynamics and energetics of the asymmetric magnetic reconnection in laboratory and space plasmas. <i>Nature Communications</i> , <b>2018</b> , 9, 5223	17.4	12
203	MMS Observations of Beta-dependent Constraints on Ion Temperature Anisotropy in Earth's Magnetosheath. <i>Astrophysical Journal</i> , <b>2018</b> , 866, 25	4.7	10
202	Statistical Study of the Properties of Magnetosheath Lion Roars. <i>Journal of Geophysical Research: Space Physics</i> , <b>2018</b> , 123, 5435-5451	2.6	10
201	A new method to identify flux ropes in space plasmas. <i>Annales Geophysicae</i> , <b>2018</b> , 36, 1275-1283	2	3
200	Perpendicular Current Reduction Caused by Cold Ions of Ionospheric Origin in Magnetic Reconnection at the Magnetopause: Particle-in-Cell Simulations and Spacecraft Observations. <i>Geophysical Research Letters</i> , <b>2018</b> , 45, 10,033-10,042	4.9	12
199	Observational Evidence of Large-Scale Multiple Reconnection at the Earth's Dayside Magnetopause. <i>Journal of Geophysical Research: Space Physics</i> , <b>2018</b> , 123, 8407-8421	2.6	16
198	Small-Scale Flux Transfer Events Formed in the Reconnection Exhaust Region Between Two X Lines. <i>Journal of Geophysical Research: Space Physics</i> , <b>2018</b> , 123, 8473-8488	2.6	17
197	Solar Wind Turbulence Studies Using MMS Fast Plasma Investigation Data. <i>Astrophysical Journal</i> , <b>2018</b> , 866, 81	4.7	33
196	Modulation of Ion and Electron Pitch Angle in the Presence of Large-amplitude, Low-frequency, Left-hand Circularly Polarized Electromagnetic Waves Observed by MMS. <i>Astrophysical Journal</i> , <b>2018</b> , 867, 58	4.7	9
195	Ion Kinetics in a Hot Flow Anomaly: MMS Observations. <i>Geophysical Research Letters</i> , <b>2018</b> , 45, 11,520	4.9	18
194	Direct measurements of two-way wave-particle energy transfer in a collisionless space plasma. <i>Science</i> , <b>2018</b> , 361, 1000-1003	33.3	19
193	Measurement of the Magnetic Reconnection Rate in the Earth's Magnetotail. <i>Journal of Geophysical Research: Space Physics</i> , <b>2018</b> , 123, 9150-9168	2.6	31
192	A Statistical Study of Slow-Mode Shocks Observed by MMS in the Dayside Magnetopause. <i>Geophysical Research Letters</i> , <b>2018</b> , 45, 4675-4684	4.9	0
191	In Situ Observation of Magnetic Reconnection Between an Earthward Propagating Flux Rope and the Geomagnetic Field. <i>Geophysical Research Letters</i> , <b>2018</b> , 45, 8729-8737	4.9	26
190	Autogenous and efficient acceleration of energetic ions upstream of Earth's bow shock. <i>Nature</i> , <b>2018</b> , 561, 206-210	50.4	32
189	Electron Energization at a Reconnecting Magnetosheath Current Sheet. <i>Geophysical Research Letters</i> , <b>2018</b> , 45, 8081-8090	4.9	16
188	Local Excitation of Whistler Mode Waves and Associated Langmuir Waves at Dayside Reconnection Regions. <i>Geophysical Research Letters</i> , <b>2018</b> , 45, 8793-8802	4.9	14

187	Localized and Intense Energy Conversion in the Diffusion Region of Asymmetric Magnetic Reconnection. <i>Geophysical Research Letters</i> , <b>2018</b> , 45, 5260-5267	4.9	21
186	Electron Bulk Acceleration and Thermalization at Earth's Quasiperpendicular Bow Shock. <i>Physical Review Letters</i> , <b>2018</b> , 120, 225101	7.4	29
185	Electron-Scale Measurements of Dipolarization Front. <i>Geophysical Research Letters</i> , <b>2018</b> , 45, 4628-4638	4.9	63
184	Observations of Whistler Waves Correlated with Electron-scale Coherent Structures in the Magnetosheath Turbulent Plasma. <i>Astrophysical Journal</i> , <b>2018</b> , 861, 29	4.7	32
183	Hodographic approach for determining spacecraft trajectories through magnetic reconnection diffusion regions. <i>Geophysical Research Letters</i> , <b>2017</b> , 44, 1625-1633	4.9	6
182	Magnetospheric Multiscale Observations of Electron Vortex Magnetic Hole in the Turbulent Magnetosheath Plasma. <i>Astrophysical Journal Letters</i> , <b>2017</b> , 836, L27	7.9	63
181	On the origin of the crescent-shaped distributions observed by MMS at the magnetopause. <i>Journal of Geophysical Research: Space Physics</i> , <b>2017</b> , 122, 2024-2039	2.6	35
180	Evolution of a typical ion-scale magnetic flux rope caused by thermal pressure enhancement. <i>Journal of Geophysical Research: Space Physics</i> , <b>2017</b> , 122, 2040-2050	2.6	13
179	Current sheets in comet 67P/Churyumov-Gerasimenko's coma. <i>Journal of Geophysical Research: Space Physics</i> , <b>2017</b> , 122, 3308-3321	2.6	11
178	Kinetic Alfvén wave explanation of the Hall fields in magnetic reconnection. <i>Geophysical Research Letters</i> , <b>2017</b> , 44, 634-640	4.9	32
177	Electron Heating at Kinetic Scales in Magnetosheath Turbulence. <i>Astrophysical Journal</i> , <b>2017</b> , 836, 247	4.7	40
176	PLASMA ENVIRONMENT AROUND COMET 67P/CHURYUMOVGERASIMENKO AT PERIHELION: MODEL COMPARISON WITH ROSETTA DATA. <i>Astronomical Journal</i> , <b>2017</b> , 153, 30	4.9	19
175	Magnetospheric Multiscale mission observations of the outer electron diffusion region. <i>Geophysical Research Letters</i> , <b>2017</b> , 44, 2049-2059	4.9	30
174	Quantitative analysis of a Hall system in the exhaust of asymmetric magnetic reconnection. <i>Journal of Geophysical Research: Space Physics</i> , <b>2017</b> , 122, 5277-5289	2.6	12
173	Large-scale characteristics of reconnection diffusion regions and associated magnetopause crossings observed by MMS. <i>Journal of Geophysical Research: Space Physics</i> , <b>2017</b> , 122, 5466-5486	2.6	39
172	The nonlinear behavior of whistler waves at the reconnecting dayside magnetopause as observed by the Magnetospheric Multiscale mission: A case study. <i>Journal of Geophysical Research: Space Physics</i> , <b>2017</b> , 122, 5487-5501	2.6	20
171	MMS observations of whistler waves in electron diffusion region. <i>Geophysical Research Letters</i> , <b>2017</b> , 44, 3954-3962	4.9	68
170	Electron diffusion region during magnetopause reconnection with an intermediate guide field: Magnetospheric multiscale observations. <i>Journal of Geophysical Research: Space Physics</i> , <b>2017</b> , 122, 5235-5246	2.6	41



169	Reconstruction of the electron diffusion region observed by the Magnetospheric Multiscale spacecraft: First results. <i>Geophysical Research Letters</i> , <b>2017</b> , 44, 4566-4574	4.9	20
168	Parallel electron heating in the magnetospheric inflow region. <i>Geophysical Research Letters</i> , <b>2017</b> , 44, 4384-4392	4.9	8
167	Structure, force balance, and topology of Earth's magnetopause. <i>Science</i> , <b>2017</b> , 356, 960-963	33.3	7
166	Quadrupolar pattern of the asymmetric guide-field reconnection. <i>Journal of Geophysical Research: Space Physics</i> , <b>2017</b> , 122, 6349-6356	2.6	30
165	Structure and evolution of flux transfer events near dayside magnetic reconnection dissipation region: MMS observations. <i>Geophysical Research Letters</i> , <b>2017</b> , 44, 5951-5959	4.9	19
164	Wave-particle energy exchange directly observed in a kinetic Alfvén-branch wave. <i>Nature Communications</i> , <b>2017</b> , 8, 14719	17.4	57
163	Drift waves, intense parallel electric fields, and turbulence associated with asymmetric magnetic reconnection at the magnetopause. <i>Geophysical Research Letters</i> , <b>2017</b> , 44, 2978-2986	4.9	35
162	EDR signatures observed by MMS in the 16 October event presented in a 2-D parametric space. <i>Journal of Geophysical Research: Space Physics</i> , <b>2017</b> , 122, 3262-3276	2.6	2
161	MMS observation of inverse energy dispersion in shock drift accelerated ions. <i>Journal of Geophysical Research: Space Physics</i> , <b>2017</b> , 122, 3232-3246	2.6	1
160	Lower hybrid waves in the ion diffusion and magnetospheric inflow regions. <i>Journal of Geophysical Research: Space Physics</i> , <b>2017</b> , 122, 517-533	2.6	81
159	MMS Observation of Magnetic Reconnection in the Turbulent Magnetosheath. <i>Journal of Geophysical Research: Space Physics</i> , <b>2017</b> , 122, 11,442-11,467	2.6	53
158	Multipoint Observations of Energetic Particle Injections and Substorm Activity During a Conjunction Between Magnetospheric Multiscale (MMS) and Van Allen Probes. <i>Journal of Geophysical Research: Space Physics</i> , <b>2017</b> , 122, 11,481-11,504	2.6	23
157	Magnetospheric Ion Evolution Across the Low-Latitude Boundary Layer Separatrix. <i>Journal of Geophysical Research: Space Physics</i> , <b>2017</b> , 122, 10,247-10,262	2.6	14
156	Examining Coherency Scales, Substructure, and Propagation of Whistler Mode Chorus Elements With Magnetospheric Multiscale (MMS). <i>Journal of Geophysical Research: Space Physics</i> , <b>2017</b> , 122, 11,207-11,223	2.6	13
155	MMS Observations and Hybrid Simulations of Surface Ripples at a Marginally Quasi-Parallel Shock. <i>Journal of Geophysical Research: Space Physics</i> , <b>2017</b> , 122, 11,003-11,017	2.6	39
154	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> , <b>2017</b> , 122, 12,236-12,257	2.6	24
153	Simultaneous Remote Observations of Intense Reconnection Effects by DMSP and MMS Spacecraft During a Storm Time Substorm. <i>Journal of Geophysical Research: Space Physics</i> , <b>2017</b> , 122, 10891-10909	2.6	8
152	Turbulence in Three-Dimensional Simulations of Magnetopause Reconnection. <i>Journal of Geophysical Research: Space Physics</i> , <b>2017</b> , 122, 11,086-11,099	2.6	25

151	The Effect of a Guide Field on Local Energy Conversion During Asymmetric Magnetic Reconnection: MMS Observations. <i>Journal of Geophysical Research: Space Physics</i> , <b>2017</b> , 122, 11,342-11,353	2.6	32
150	The MMS Dayside Magnetic Reconnection Locations During Phase 1 and Their Relation to the Predictions of the Maximum Magnetic Shear Model. <i>Journal of Geophysical Research: Space Physics</i> , <b>2017</b> , 122, 11,991-12,005	2.6	16
149	Cold Ionospheric Ions in the Magnetic Reconnection Outflow Region. <i>Journal of Geophysical Research: Space Physics</i> , <b>2017</b> , 122, 10,194-10,202	2.6	16
148	Magnetospheric Multiscale analysis of intense field-aligned Poynting flux near the Earth's plasma sheet boundary. <i>Geophysical Research Letters</i> , <b>2017</b> , 44, 7106-7113	4.9	14
147	Dominance of high-energy (>150 keV) heavy ion intensities in Earth's middle to outer magnetosphere. <i>Journal of Geophysical Research: Space Physics</i> , <b>2017</b> , 122, 9282-9293	2.6	14
146	Energy budget and mechanisms of cold ion heating in asymmetric magnetic reconnection. <i>Journal of Geophysical Research: Space Physics</i> , <b>2017</b> , 122, 9396-9413	2.6	19
145	Interaction of Magnetic Flux Ropes Via Magnetic Reconnection Observed at the Magnetopause. <i>Journal of Geophysical Research: Space Physics</i> , <b>2017</b> , 122, 10,436-10,447	2.6	21
144	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> , <b>2017</b> , 122, 9934-9951	2.6	2
143	Coalescence of Macroscopic Flux Ropes at the Subsolar Magnetopause: Magnetospheric Multiscale Observations. <i>Physical Review Letters</i> , <b>2017</b> , 119, 055101	7.4	56
142	Dayside response of the magnetosphere to a small shock compression: Van Allen Probes, Magnetospheric MultiScale, and GOES-13. <i>Geophysical Research Letters</i> , <b>2017</b> , 44, 8712-8720	4.9	13
141	Magnetospheric ion influence at the dayside magnetopause. <i>Journal of Geophysical Research: Space Physics</i> , <b>2017</b> , 122, 8617-8631	2.6	28
140	High-resolution Statistics of Solar Wind Turbulence at Kinetic Scales Using the Magnetospheric Multiscale Mission. <i>Astrophysical Journal Letters</i> , <b>2017</b> , 844, L9	7.9	23
139	Instability of Agyrotropic Electron Beams near the Electron Diffusion Region. <i>Physical Review Letters</i> , <b>2017</b> , 119, 025101	7.4	37
138	Rosetta Alice/VIRTIS observations of the water vapour UV electroglow emissions around comet 67P/Churyumov-Gerasimenko. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2017</b> , 469, S416-S426	4.3	8
137	Statistical analysis of MMS observations of energetic electron escape observed at/beyond the dayside magnetopause. <i>Journal of Geophysical Research: Space Physics</i> , <b>2017</b> , 122, 9440-9463	2.6	11
136	Structure and Dissipation Characteristics of an Electron Diffusion Region Observed by MMS During a Rapid, Normal-Incidence Magnetopause Crossing. <i>Journal of Geophysical Research: Space Physics</i> , <b>2017</b> , 122, 11,901-11,916	2.6	14
135	Magnetospheric Multiscale Observation of Plasma Velocity-Space Cascade: Hermite Representation and Theory. <i>Physical Review Letters</i> , <b>2017</b> , 119, 205101	7.4	54
134	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> , <b>2017</b> , 122, 11,523-11,542	2.6	18

133	Interplanetary coronal mass ejection observed at STEREO-A, Mars, comet 67P/Churyumov-Gerasimenko, Saturn, and New Horizons en route to Pluto: Comparison of its Forbush decreases at 1.4, 3.1, and 9.9 AU. <i>Journal of Geophysical Research: Space Physics</i> , <b>2017</b> , 122, 7865-7890	2.6	66
132	Population Mixing in Asymmetric Magnetic Reconnection with a Guide Field. <i>Physical Review Letters</i> , <b>2017</b> , 118, 145101	7.4	11
131	Two years of solar wind and pickup ion measurements at comet 67P/Churyumov-Gerasimenko. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2017</b> , 469, S262-S267	4.3	5
130	Multipoint Measurements of the Electron Jet of Symmetric Magnetic Reconnection with a Moderate Guide Field. <i>Physical Review Letters</i> , <b>2017</b> , 118, 265101	7.4	33
129	Electron-Scale Quadrants of the Hall Magnetic Field Observed by the Magnetospheric Multiscale spacecraft during Asymmetric Reconnection. <i>Physical Review Letters</i> , <b>2017</b> , 118, 175101	7.4	42
128	A statistical study of kinetic-size magnetic holes in turbulent magnetosheath: MMS observations. <i>Journal of Geophysical Research: Space Physics</i> , <b>2017</b> , 122, 8577-8588	2.6	51
127	The occurrence and wave properties of EMIC waves observed by the Magnetospheric Multiscale (MMS) mission. <i>Journal of Geophysical Research: Space Physics</i> , <b>2017</b> , 122, 8228-8240	2.6	28
126	Impact of a cometary outburst on its ionosphere. <i>Astronomy and Astrophysics</i> , <b>2017</b> , 607, A34	5.1	17
125	Magnetospheric Multiscale Overview and Science Objectives. <i>Space Science Reviews</i> , <b>2016</b> , 199, 5-21	7.5	819
124	Mass-loading, pile-up, and mirror-mode waves at comet 67P/Churyumov-Gerasimenko. <i>Annales Geophysicae</i> , <b>2016</b> , 34, 1-15	2	40
123	Magnetic reconnection at the dayside magnetopause: Advances with MMS. <i>Geophysical Research Letters</i> , <b>2016</b> , 43, 8327-8338	4.9	103
122	MMS observations of large guide field symmetric reconnection between colliding reconnection jets at the center of a magnetic flux rope at the magnetopause. <i>Geophysical Research Letters</i> , <b>2016</b> , 43, 5536-5544	4.9	65
121	MMS observations of ion-scale magnetic island in the magnetosheath turbulent plasma. <i>Geophysical Research Letters</i> , <b>2016</b> , 43, 7850-7858	4.9	41
120	Inverse energy dispersion of energetic ions observed in the magnetosheath. <i>Geophysical Research Letters</i> , <b>2016</b> , 43, 7338-7347	4.9	5
119	Observations of turbulence in a Kelvin-Helmholtz event on 8 September 2015 by the Magnetospheric Multiscale mission. <i>Journal of Geophysical Research: Space Physics</i> , <b>2016</b> , 121, 11,021-11,034	2.6	59
118	Statistical analysis of suprathermal electron drivers at 67P/Churyumov-Gerasimenko. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2016</b> , 462, S312-S322	4.3	37
117	Strong current sheet at a magnetosheath jet: Kinetic structure and electron acceleration. <i>Journal of Geophysical Research: Space Physics</i> , <b>2016</b> , 121, 9608-9618	2.6	19
116	Magnetospheric Multiscale Mission observations and non-force free modeling of a flux transfer event immersed in a super-Alfvénic flow. <i>Geophysical Research Letters</i> , <b>2016</b> , 43, 6070-6077	4.9	20

115	Magnetospheric Multiscale observations of magnetic reconnection associated with Kelvin-Helmholtz waves. <i>Geophysical Research Letters</i> , <b>2016</b> , 43, 5606-5615	4.9	84
114	Thick escaping magnetospheric ion layer in magnetopause reconnection with MMS observations. <i>Geophysical Research Letters</i> , <b>2016</b> , 43, 6028-6035	4.9	1
113	Multispacecraft analysis of dipolarization fronts and associated whistler wave emissions using MMS data. <i>Geophysical Research Letters</i> , <b>2016</b> , 43, 7279-7286	4.9	38
112	Electrodynamic context of magnetopause dynamics observed by magnetospheric multiscale. <i>Geophysical Research Letters</i> , <b>2016</b> , 43, 5988-5996	4.9	8
111	Energy limits of electron acceleration in the plasma sheet during substorms: A case study with the Magnetospheric Multiscale (MMS) mission. <i>Geophysical Research Letters</i> , <b>2016</b> , 43, 7785-7794	4.9	33
110	Electron currents and heating in the ion diffusion region of asymmetric reconnection. <i>Geophysical Research Letters</i> , <b>2016</b> , 43, 4691-4700	4.9	43
109	Whistler mode waves and Hall fields detected by MMS during a dayside magnetopause crossing. <i>Geophysical Research Letters</i> , <b>2016</b> , 43, 5943-5952	4.9	36
108	Magnetospheric Multiscale Satellite Observations of Parallel Electron Acceleration in Magnetic Field Reconnection by Fermi Reflection from Time Domain Structures. <i>Physical Review Letters</i> , <b>2016</b> , 116, 145101	7.4	40
107	Magnetospheric Multiscale Satellites Observations of Parallel Electric Fields Associated with Magnetic Reconnection. <i>Physical Review Letters</i> , <b>2016</b> , 116, 235102	7.4	50
106	Magnetospheric Multiscale Observations of the Electron Diffusion Region of Large Guide Field Magnetic Reconnection. <i>Physical Review Letters</i> , <b>2016</b> , 117, 015001	7.4	60
105	MMS Multipoint electric field observations of small-scale magnetic holes. <i>Geophysical Research Letters</i> , <b>2016</b> , 43, 5953-5959	4.9	36
104	Observations of whistler mode waves with nonlinear parallel electric fields near the dayside magnetic reconnection separatrix by the Magnetospheric Multiscale mission. <i>Geophysical Research Letters</i> , <b>2016</b> , 43, 5909-5917	4.9	51
103	Estimates of terms in Ohm's law during an encounter with an electron diffusion region. <i>Geophysical Research Letters</i> , <b>2016</b> , 43, 5918-5925	4.9	68
102	Rippled Quasiperpendicular Shock Observed by the Magnetospheric Multiscale Spacecraft. <i>Physical Review Letters</i> , <b>2016</b> , 117, 165101	7.4	59
101	Ionospheric plasma of comet 67P probed by Rosetta at 3 au from the Sun. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2016</b> , 462, S331-S351	4.3	64
100	Microinjections observed by MMS FEEPS in the dusk to midnight region. <i>Geophysical Research Letters</i> , <b>2016</b> , 43, 6078-6086	4.9	7
99	CME impact on comet 67P/Churyumov-Gerasimenko. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2016</b> , 462, S45-S56	4.3	36
98	Evidence of $m=1$ density mode (plasma cam) in Saturn's rotating magnetosphere. <i>Journal of Geophysical Research: Space Physics</i> , <b>2016</b> , 121, 2335-2348	2.6	3

97	Signatures of complex magnetic topologies from multiple reconnection sites induced by Kelvin-Helmholtz instability. <i>Journal of Geophysical Research: Space Physics</i> , <b>2016</b> , 121, 9926-9939	2.6	23
96	Structure and evolution of the diamagnetic cavity at comet 67P/Churyumov-Gerasimenko. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2016</b> , 462, S459-S467	4.3	65
95	Shift of the magnetopause reconnection line to the winter hemisphere under southward IMF conditions: Geotail and MMS observations. <i>Geophysical Research Letters</i> , <b>2016</b> , 43, 5581-5588	4.9	14
94	Finite gyroradius effects in the electron outflow of asymmetric magnetic reconnection. <i>Geophysical Research Letters</i> , <b>2016</b> , 43, 6724-6733	4.9	34
93	Magnetospheric Multiscale observations of large-amplitude, parallel, electrostatic waves associated with magnetic reconnection at the magnetopause. <i>Geophysical Research Letters</i> , <b>2016</b> , 43, 5626-5634	4.9	49
92	Observation of high-frequency electrostatic waves in the vicinity of the reconnection ion diffusion region by the spacecraft of the Magnetospheric Multiscale (MMS) mission. <i>Geophysical Research Letters</i> , <b>2016</b> , 43, 4808-4815	4.9	24
91	Comparison of Magnetospheric Multiscale ion jet signatures with predicted reconnection site locations at the magnetopause. <i>Geophysical Research Letters</i> , <b>2016</b> , 43, 5997-6004	4.9	16
90	A telescopic and microscopic examination of acceleration in the June 2015 geomagnetic storm: Magnetospheric Multiscale and Van Allen Probes study of substorm particle injection. <i>Geophysical Research Letters</i> , <b>2016</b> , 43, 6051-6059	4.9	21
89	Magnetospheric Multiscale Science Mission Profile and Operations. <i>Space Science Reviews</i> , <b>2016</b> , 199, 77-103	7.5	112
88	Hot Plasma Composition Analyzer for the Magnetospheric Multiscale Mission. <i>Space Science Reviews</i> , <b>2016</b> , 199, 407-470	7.5	117
87	RPC observation of the development and evolution of plasma interaction boundaries at 67P/Churyumov-Gerasimenko. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2016</b> , 462, S9-S22	4.3	58
86	First detection of a diamagnetic cavity at comet 67P/Churyumov-Gerasimenko. <i>Astronomy and Astrophysics</i> , <b>2016</b> , 588, A24	5.1	83
85	Currents and associated electron scattering and bouncing near the diffusion region at Earth's magnetopause. <i>Geophysical Research Letters</i> , <b>2016</b> , 43, 3042-3050	4.9	65
84	Ion-scale secondary flux ropes generated by magnetopause reconnection as resolved by MMS. <i>Geophysical Research Letters</i> , <b>2016</b> , 43, 4716-4724	4.9	80
83	Electron jet of asymmetric reconnection. <i>Geophysical Research Letters</i> , <b>2016</b> , 43, 5571-5580	4.9	59
82	Electron scale structures and magnetic reconnection signatures in the turbulent magnetosheath. <i>Geophysical Research Letters</i> , <b>2016</b> , 43, 5969-5978	4.9	72
81	Characterizing cometary electrons with kappa distributions. <i>Journal of Geophysical Research: Space Physics</i> , <b>2016</b> , 121, 7407-7422	2.6	50
80	Energetic electron acceleration observed by MMS in the vicinity of an X-line crossing. <i>Geophysical Research Letters</i> , <b>2016</b> , 43, 7356-7363	4.9	18

79	Solar wind interaction with comet 67P: Impacts of corotating interaction regions. <i>Journal of Geophysical Research: Space Physics</i> , <b>2016</b> , 121, 949-965	2.6	26
78	Study of the spacecraft potential under active control and plasma density estimates during the MMS commissioning phase. <i>Geophysical Research Letters</i> , <b>2016</b> , 43, 4858-4864	4.9	12
77	Two-scale ion meandering caused by the polarization electric field during asymmetric reconnection. <i>Geophysical Research Letters</i> , <b>2016</b> , 43, 7831-7839	4.9	13
76	Fast Plasma Investigation for Magnetospheric Multiscale. <i>Space Science Reviews</i> , <b>2016</b> , 199, 331-406	7.5	712
75	Electron-scale measurements of magnetic reconnection in space. <i>Science</i> , <b>2016</b> , 352, aaf2939	33.3	418
74	Observations of large-amplitude, parallel, electrostatic waves associated with the Kelvin-Helmholtz instability by the magnetospheric multiscale mission. <i>Geophysical Research Letters</i> , <b>2016</b> , 43, 8859-8866	4.9	18
73	Magnetospheric ion influence on magnetic reconnection at the duskside magnetopause. <i>Geophysical Research Letters</i> , <b>2016</b> , 43, 1435-1442	4.9	36
72	On the electron diffusion region in asymmetric reconnection with a guide magnetic field. <i>Geophysical Research Letters</i> , <b>2016</b> , 43, 2359-2364	4.9	41
71	Electron dynamics in a subproton-gyroscale magnetic hole. <i>Geophysical Research Letters</i> , <b>2016</b> , 43, 4112-4118	4.9	44
70	The response time of the magnetopause reconnection location to changes in the solar wind: MMS case study. <i>Geophysical Research Letters</i> , <b>2016</b> , 43, 4673-4682	4.9	18
69	Observations of energetic particle escape at the magnetopause: Early results from the MMS Energetic Ion Spectrometer (EIS). <i>Geophysical Research Letters</i> , <b>2016</b> , 43, 5960-5968	4.9	22
68	Transient, small-scale field-aligned currents in the plasma sheet boundary layer during storm time substorms. <i>Geophysical Research Letters</i> , <b>2016</b> , 43, 4841-4849	4.9	23
67	Wave telescope technique for MMS magnetometer. <i>Geophysical Research Letters</i> , <b>2016</b> , 43, 4774-4780	4.9	10
66	Kinetic evidence of magnetic reconnection due to Kelvin-Helmholtz waves. <i>Geophysical Research Letters</i> , <b>2016</b> , 43, 5635-5643	4.9	36
65	Decay of mesoscale flux transfer events during quasi-continuous spatially extended reconnection at the magnetopause. <i>Geophysical Research Letters</i> , <b>2016</b> , 43, 4755-4762	4.9	23
64	Magnetic reconnection and modification of the Hall physics due to cold ions at the magnetopause. <i>Geophysical Research Letters</i> , <b>2016</b> , 43, 6705-6712	4.9	39
63	Steepening of waves at the duskside magnetopause. <i>Geophysical Research Letters</i> , <b>2016</b> , 43, 7373-7380	4.9	7
62	Magnetosphere-Ionosphere Coupling, Past to Future. <i>Geophysical Monograph Series</i> , <b>2016</b> , 1-17	1.1	1

61	Plasma Wave Observations with Cassini at Saturn. <i>Geophysical Monograph Series</i> , <b>2016</b> , 277-289	1.1	
60	Magnetosphere-Ionosphere Coupling at Jupiter and Saturn. <i>Geophysical Monograph Series</i> , <b>2016</b> , 307-318.	1.1	2
59	The substructure of a flux transfer event observed by the MMS spacecraft. <i>Geophysical Research Letters</i> , <b>2016</b> , 43, 9434-9443	4.9	21
58	Ion chemistry in the coma of comet 67P near perihelion. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2016</b> , 462, S67-S77	4.3	24
57	Suprathermal electrons near the nucleus of comet 67P/Churyumov-Gerasimenko at 3 AU: Model comparisons with Rosetta data. <i>Journal of Geophysical Research: Space Physics</i> , <b>2016</b> , 121, 5815-5836	2.6	45
56	MMS observations of electron-scale filamentary currents in the reconnection exhaust and near the X line. <i>Geophysical Research Letters</i> , <b>2016</b> , 43, 6060-6069	4.9	76
55	ON ELECTRON-SCALE WHISTLER TURBULENCE IN THE SOLAR WIND. <i>Astrophysical Journal Letters</i> , <b>2016</b> , 827, L8	7.9	41
54	Stable reconnection at the dusk flank magnetopause. <i>Geophysical Research Letters</i> , <b>2016</b> , 43, 9374-9382.	4.9	5
53	Cometary science. Birth of a comet magnetosphere: a spring of water ions. <i>Science</i> , <b>2015</b> , 347, aaa0571	33.3	94
52	The Rosetta Ion and Electron Sensor (IES) measurement of the development of pickup ions from comet 67P/Churyumov-Gerasimenko. <i>Geophysical Research Letters</i> , <b>2015</b> , 42, 3093-3099	4.9	43
51	Observation of charged nanograins at comet 67P/Churyumov-Gerasimenko. <i>Geophysical Research Letters</i> , <b>2015</b> , 42, 6575-6581	4.9	23
50	Negatively charged nano-grains at 67P/Churyumov-Gerasimenko. <i>Astronomy and Astrophysics</i> , <b>2015</b> , 583, A23	5.1	18
49	Charge exchange in cometary coma: Discovery of H ions in the solar wind close to comet 67P/Churyumov-Gerasimenko. <i>Geophysical Research Letters</i> , <b>2015</b> , 42, 5125-5131	4.9	34
48	ROSINA/DFMS and IES observations of 67P: Ion-neutral chemistry in the coma of a weakly outgassing comet. <i>Astronomy and Astrophysics</i> , <b>2015</b> , 583, A2	5.1	38
47	Observation of a new type of low-frequency waves at comet 67P/Churyumov-Gerasimenko. <i>Annales Geophysicae</i> , <b>2015</b> , 33, 1031-1036	2	59
46	Rosetta observations of solar wind interaction with the comet 67P/Churyumov-Gerasimenko. <i>Astronomy and Astrophysics</i> , <b>2015</b> , 583, A21	5.1	46
45	Evolution of the ion environment of comet 67P/Churyumov-Gerasimenko. <i>Astronomy and Astrophysics</i> , <b>2015</b> , 583, A20	5.1	72
44	Analytical model of rotating two-cell convection at Saturn. <i>Journal of Geophysical Research: Space Physics</i> , <b>2014</b> , 119, 1980-1993	2.6	6

43	Multi-instrument analysis of plasma parameters in Saturn's equatorial, inner magnetosphere using corrections for corrections for spacecraft potential and penetrating background radiation. <i>Journal of Geophysical Research: Space Physics</i> , <b>2014</b> , 119, 3683-3707	2.6	25
42	Composition of the Solar Wind. <i>Geophysical Monograph Series</i> , <b>2013</b> , 133-141	1.1	12
41	Day-night asymmetries of low-energy electrons in Saturn's inner magnetosphere. <i>Geophysical Research Letters</i> , <b>2011</b> , 38, n/a-n/a	4.9	13
40	Key Processes in Solar-Terrestrial Physics. <i>Space Science Reviews</i> , <b>2011</b> , 158, 1-3	7.5	
39	Low-energy electrons in Saturn's inner magnetosphere and their role in interchange injections. <i>Journal of Geophysical Research</i> , <b>2010</b> , 115, n/a-n/a		16
38	Periodicity in Saturn's magnetosphere: Plasma cam. <i>Geophysical Research Letters</i> , <b>2009</b> , 36,	4.9	56
37	Reconnecting Magnetic Fields. <i>American Scientist</i> , <b>2009</b> , 97, 392	2.7	46
36	On the cause of Saturn's plasma periodicity. <i>Geophysical Research Letters</i> , <b>2008</b> , 35,	4.9	29
35	Magnetic signatures of plasma-depleted flux tubes in the Saturnian inner magnetosphere. <i>Geophysical Research Letters</i> , <b>2007</b> , 34,	4.9	45
34	Tethys and Dione as sources of outward-flowing plasma in Saturn's magnetosphere. <i>Nature</i> , <b>2007</b> , 447, 833-5	50.4	55
33	RPC-IES: The Ion and Electron Sensor of the Rosetta Plasma Consortium. <i>Space Science Reviews</i> , <b>2007</b> , 128, 697-712	7.5	102
32	RPC-ICA: The Ion Composition Analyzer of the Rosetta Plasma Consortium. <i>Space Science Reviews</i> , <b>2007</b> , 128, 671-695	7.5	93
31	RPC: The Rosetta Plasma Consortium. <i>Space Science Reviews</i> , <b>2007</b> , 128, 629-647	7.5	118
30	Technique for increasing dynamic range of space-borne ion composition instruments. <i>Review of Scientific Instruments</i> , <b>2005</b> , 76, 103301	1.7	17
29	Magnetospheric imaging: Promise to reality. <i>Reviews of Geophysics</i> , <b>2005</b> , 43,	23.1	22
28	Properties of local plasma injections in Saturn's magnetosphere. <i>Geophysical Research Letters</i> , <b>2005</b> , 32, n/a-n/a	4.9	101
27	Evidence for rotationally driven plasma transport in Saturn's magnetosphere. <i>Geophysical Research Letters</i> , <b>2005</b> , 32, n/a-n/a	4.9	115
26	Radiation Belt Responses to the Solar Events of October-November 2003. <i>Geophysical Monograph Series</i> , <b>2005</b> , 251-259	1.1	1



25	An extreme distortion of the Van Allen belt arising from the 'Hallowe'en' solar storm in 2003. <i>Nature</i> , <b>2004</b> , 432, 878-81	50.4	264
24	Cassini Plasma Spectrometer Investigation. <i>Space Science Reviews</i> , <b>2004</b> , 114, 1-112	7.5	411
23	Solar wind interactions with Comet 19P/Borrelly. <i>Icarus</i> , <b>2004</b> , 167, 80-88	3.8	37
22	Cause of plasmasphere corotation lag. <i>Geophysical Research Letters</i> , <b>2004</b> , 31, n/a-n/a	4.9	58
21	Proton precipitation during transpolar auroral events: Observations with the IMAGE-FUV imagers. <i>Journal of Geophysical Research</i> , <b>2004</b> , 109,		10
20	The First two Years of Image. <i>Space Science Reviews</i> , <b>2003</b> , 109, 1-24	7.5	28
19	The First Two Years of IMAGE <b>2003</b> , 1-24		1
18	Interplanetary magnetic field control of afternoon-sector detached proton auroral arcs. <i>Journal of Geophysical Research</i> , <b>2002</b> , 107, SMP 17-1		48
17	Cusp aurora dependence on interplanetary magnetic field Bz. <i>Journal of Geophysical Research</i> , <b>2002</b> , 107, SIA 6-1		91
16	Timing of magnetic reconnection initiation during a global magnetospheric substorm onset. <i>Geophysical Research Letters</i> , <b>2002</b> , 29, 43-1-43-4	4.9	83
15	Precipitation of auroral protons in detached arcs. <i>Geophysical Research Letters</i> , <b>2002</b> , 29, 14-1	4.9	60
14	A telescopic and microscopic view of a magnetospheric substorm on 31 March 2001. <i>Geophysical Research Letters</i> , <b>2002</b> , 29, 9-1-9-4	4.9	32
13	Global observations of proton and electron auroras in a substorm. <i>Geophysical Research Letters</i> , <b>2001</b> , 28, 1139-1142	4.9	36
12	Global dynamics of the plasmasphere and ring current during magnetic storms. <i>Geophysical Research Letters</i> , <b>2001</b> , 28, 1159-1162	4.9	66
11	Views of Earth's magnetosphere with the image satellite. <i>Science</i> , <b>2001</b> , 291, 619-24	33.3	139
10	IMAGE mission overview. <i>Space Science Reviews</i> , <b>2000</b> , 91, 1-14	7.5	215
9	Medium energy neutral atom (MENA) imager for the IMAGE mission. <i>Space Science Reviews</i> , <b>2000</b> , 91, 113-154	7.5	82
8	Overlapping ion populations in the cusp: polar/TIMAS results. <i>Geophysical Research Letters</i> , <b>1998</b> , 25, 1621-1624	4.9	9

7	Bifurcated cusp ion signatures: Evidence for re-reconnection?. <i>Geophysical Research Letters</i> , <b>1997</b> , 24, 1471-1474	4.9	13
6	High-Altitude Observations of the Polar Wind. <i>Science</i> , <b>1997</b> , 277, 349-351	33.3	76
5	The Location of Magnetopause Reconnection for Northward and Southward Interplanetary Magnetic Field. <i>Geophysical Monograph Series</i> , <b>1994</b> , 183-197	1.1	34
4	Generation of electron conical distributions by upper hybrid waves in the Earth's polar region. <i>Journal of Geophysical Research</i> , <b>1988</b> , 93, 10025		17
3	2π-radian field-of-view toroidal electrostatic analyzer. <i>Review of Scientific Instruments</i> , <b>1988</b> , 59, 743-751	1.7	79
2	Solar wind plasma injection at the dayside magnetospheric cusp. <i>Journal of Geophysical Research</i> , <b>1977</b> , 82, 479-491		320
1	Observations of Modulation of Ion flux in the Coma of Comet 67P/Churyumov-Gerasimenko. <i>Geophysical Research Letters</i> ,	4.9	