

J L Burch

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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	Magnetospheric Multiscale Overview and Science Objectives. <i>Space Science Reviews</i> , 2016 , 199, 5-21	7.5	819
437	Fast Plasma Investigation for Magnetospheric Multiscale. <i>Space Science Reviews</i> , 2016 , 199, 331-406	7.5	712
436	Electron-scale measurements of magnetic reconnection in space. <i>Science</i> , 2016 , 352, aaf2939	33.3	418
435	Cassini Plasma Spectrometer Investigation. <i>Space Science Reviews</i> , 2004 , 114, 1-112	7.5	411
434	Solar wind plasma injection at the dayside magnetospheric cusp. <i>Journal of Geophysical Research</i> , 1977 , 82, 479-491		320
433	An extreme distortion of the Van Allen belt arising from the 'Hallowe'en' solar storm in 2003. <i>Nature</i> , 2004 , 432, 878-81	50.4	264
432	IMAGE mission overview. <i>Space Science Reviews</i> , 2000 , 91, 1-14	7.5	215
431	The Space Physics Environment Data Analysis System (SPEDAS). <i>Space Science Reviews</i> , 2019 , 215, 9	7.5	205
430	Electron magnetic reconnection without ion coupling in Earth's turbulent magnetosheath. <i>Nature</i> , 2018 , 557, 202-206	50.4	173
429	Views of Earth's magnetosphere with the image satellite. <i>Science</i> , 2001 , 291, 619-24	33.3	139
428	Electron-scale dynamics of the diffusion region during symmetric magnetic reconnection in space. <i>Science</i> , 2018 , 362, 1391-1395	33.3	139
427	RPC: The Rosetta Plasma Consortium. <i>Space Science Reviews</i> , 2007 , 128, 629-647	7.5	118
426	Hot Plasma Composition Analyzer for the Magnetospheric Multiscale Mission. <i>Space Science Reviews</i> , 2016 , 199, 407-470	7.5	117
425	Evidence for rotationally driven plasma transport in Saturn's magnetosphere. <i>Geophysical Research Letters</i> , 2005 , 32, n/a-n/a	4.9	115
424	Magnetospheric Multiscale Science Mission Profile and Operations. <i>Space Science Reviews</i> , 2016 , 199, 77-103	7.5	112
423	Magnetic reconnection at the dayside magnetopause: Advances with MMS. <i>Geophysical Research Letters</i> , 2016 , 43, 8327-8338	4.9	103
422	RPC-IES: The Ion and Electron Sensor of the Rosetta Plasma Consortium. <i>Space Science Reviews</i> , 2007 , 128, 697-712	7.5	102

421	Properties of local plasma injections in Saturn's magnetosphere. <i>Geophysical Research Letters</i> , 2005 , 32, n/a-n/a	4.9	101
420	Cometary science. Birth of a comet magnetosphere: a spring of water ions. <i>Science</i> , 2015 , 347, aaa0571	33.3	94
419	RPC-ICA: The Ion Composition Analyzer of the Rosetta Plasma Consortium. <i>Space Science Reviews</i> , 2007 , 128, 671-695	7.5	93
418	Cusp aurora dependence on interplanetary magnetic field Bz. <i>Journal of Geophysical Research</i> , 2002 , 107, SIA 6-1		91
417	Magnetospheric Multiscale observations of magnetic reconnection associated with Kelvin-Helmholtz waves. <i>Geophysical Research Letters</i> , 2016 , 43, 5606-5615	4.9	84
416	Timing of magnetic reconnection initiation during a global magnetospheric substorm onset. <i>Geophysical Research Letters</i> , 2002 , 29, 43-1-43-4	4.9	83
415	First detection of a diamagnetic cavity at comet 67P/Churyumov-Gerasimenko. <i>Astronomy and Astrophysics</i> , 2016 , 588, A24	5.1	83
414	Medium energy neutral atom (MENA) imager for the IMAGE mission. <i>Space Science Reviews</i> , 2000 , 91, 113-154	7.5	82
413	Lower hybrid waves in the ion diffusion and magnetospheric inflow regions. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 517-533	2.6	81
412	Ion-scale secondary flux ropes generated by magnetopause reconnection as resolved by MMS. <i>Geophysical Research Letters</i> , 2016 , 43, 4716-4724	4.9	80
411	2πradian field-of-view toroidal electrostatic analyzer. <i>Review of Scientific Instruments</i> , 1988 , 59, 743-751	1.7	79
410	High-Altitude Observations of the Polar Wind. <i>Science</i> , 1997 , 277, 349-351	33.3	76
409	MMS observations of electron-scale filamentary currents in the reconnection exhaust and near the X line. <i>Geophysical Research Letters</i> , 2016 , 43, 6060-6069	4.9	76
408	Evolution of the ion environment of comet 67P/Churyumov-Gerasimenko. <i>Astronomy and Astrophysics</i> , 2015 , 583, A20	5.1	72
407	Electron scale structures and magnetic reconnection signatures in the turbulent magnetosheath. <i>Geophysical Research Letters</i> , 2016 , 43, 5969-5978	4.9	72
406	MMS observations of whistler waves in electron diffusion region. <i>Geophysical Research Letters</i> , 2017 , 44, 3954-3962	4.9	68
405	Estimates of terms in Ohm's law during an encounter with an electron diffusion region. <i>Geophysical Research Letters</i> , 2016 , 43, 5918-5925	4.9	68
404	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> , 2017 , 122, 7865-7890	2.6	66

403	Global dynamics of the plasmasphere and ring current during magnetic storms. <i>Geophysical Research Letters</i> , 2001 , 28, 1159-1162	4.9	66
402	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> , 2016 , 43, 5536-5544	4.9	65
401	Structure and evolution of the diamagnetic cavity at comet 67P/Churyumov-Gerasimenko. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016 , 462, S459-S467	4.3	65
400	Currents and associated electron scattering and bouncing near the diffusion region at Earth's magnetopause. <i>Geophysical Research Letters</i> , 2016 , 43, 3042-3050	4.9	65
399	Ionospheric plasma of comet 67P probed by Rosetta at 3 au from the Sun. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016 , 462, S331-S351	4.3	64
398	Magnetospheric Multiscale Observations of Electron Vortex Magnetic Hole in the Turbulent Magnetosheath Plasma. <i>Astrophysical Journal Letters</i> , 2017 , 836, L27	7.9	63
397	Electron-Scale Measurements of Dipolarization Front. <i>Geophysical Research Letters</i> , 2018 , 45, 4628-4638	4.9	63
396	Magnetospheric Multiscale Observations of the Electron Diffusion Region of Large Guide Field Magnetic Reconnection. <i>Physical Review Letters</i> , 2016 , 117, 015001	7.4	60
395	Precipitation of auroral protons in detached arcs. <i>Geophysical Research Letters</i> , 2002 , 29, 14-1	4.9	60
394	Magnetospheric Multiscale Dayside Reconnection Electron Diffusion Region Events. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 4858-4878	2.6	60
393	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> , 2016 , 121, 11,021-11,034	2.6	59
392	Rippled Quasiperpendicular Shock Observed by the Magnetospheric Multiscale Spacecraft. <i>Physical Review Letters</i> , 2016 , 117, 165101	7.4	59
391	Observation of a new type of low-frequency waves at comet 67P/Churyumov-Gerasimenko. <i>Annales Geophysicae</i> , 2015 , 33, 1031-1036	2	59
390	Electron jet of asymmetric reconnection. <i>Geophysical Research Letters</i> , 2016 , 43, 5571-5580	4.9	59
389	Cause of plasmasphere corotation lag. <i>Geophysical Research Letters</i> , 2004 , 31, n/a-n/a	4.9	58
388	RPC observation of the development and evolution of plasma interaction boundaries at 67P/Churyumov-Gerasimenko. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016 , 462, S9-S22	4.3	58
387	Wave-particle energy exchange directly observed in a kinetic Alfvén-branch wave. <i>Nature Communications</i> , 2017 , 8, 14719	17.4	57
386	Electron Jet Detected by MMS at Dipolarization Front. <i>Geophysical Research Letters</i> , 2018 , 45, 556-564	4.9	56

385	Coalescence of Macroscopic Flux Ropes at the Subsolar Magnetopause: Magnetospheric Multiscale Observations. <i>Physical Review Letters</i> , 2017 , 119, 055101	7.4	56
384	Periodicity in Saturn's magnetosphere: Plasma cam. <i>Geophysical Research Letters</i> , 2009 , 36,	4.9	56
383	Tethys and Dione as sources of outward-flowing plasma in Saturn's magnetosphere. <i>Nature</i> , 2007 , 447, 833-5	50.4	55
382	Magnetospheric Multiscale Observation of Plasma Velocity-Space Cascade: Hermite Representation and Theory. <i>Physical Review Letters</i> , 2017 , 119, 205101	7.4	54
381	MMS Observation of Magnetic Reconnection in the Turbulent Magnetosheath. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 11,442-11,467	2.6	53
380	Observations of an Electron Diffusion Region in Symmetric Reconnection with Weak Guide Field. <i>Astrophysical Journal</i> , 2019 , 870, 34	4.7	53
379	Properties of the Turbulence Associated with Electron-only Magnetic Reconnection in Earth's Magnetosheath. <i>Astrophysical Journal Letters</i> , 2019 , 877, L37	7.9	52
378	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> , 2016 , 43, 5909-5917	4.9	51
377	A statistical study of kinetic-size magnetic holes in turbulent magnetosheath: MMS observations. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 8577-8588	2.6	51
376	Magnetospheric Multiscale Satellites Observations of Parallel Electric Fields Associated with Magnetic Reconnection. <i>Physical Review Letters</i> , 2016 , 116, 235102	7.4	50
375	Characterizing cometary electrons with kappa distributions. <i>Journal of Geophysical Research: Space Physics</i> , 2016 , 121, 7407-7422	2.6	50
374	Magnetospheric Multiscale observations of large-amplitude, parallel, electrostatic waves associated with magnetic reconnection at the magnetopause. <i>Geophysical Research Letters</i> , 2016 , 43, 5626-5634	4.9	49
373	Interplanetary magnetic field control of afternoon-sector detached proton auroral arcs. <i>Journal of Geophysical Research</i> , 2002 , 107, SMP 17-1		48
372	Rosetta observations of solar wind interaction with the comet 67P/Churyumov-Gerasimenko. <i>Astronomy and Astrophysics</i> , 2015 , 583, A21	5.1	46
371	Reconnecting Magnetic Fields. <i>American Scientist</i> , 2009 , 97, 392	2.7	46
370	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> , 2018 , 123, 9130-9149	2.6	46
369	Magnetic signatures of plasma-depleted flux tubes in the Saturnian inner magnetosphere. <i>Geophysical Research Letters</i> , 2007 , 34,	4.9	45
368	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> , 2016 , 121, 5815-5836	2.6	45

367	Electron dynamics in a subproton-gyroscale magnetic hole. <i>Geophysical Research Letters</i> , 2016 , 43, 4112-4118	4.1	44
366	Electron currents and heating in the ion diffusion region of asymmetric reconnection. <i>Geophysical Research Letters</i> , 2016 , 43, 4691-4700	4.9	43
365	Energy Conversion and Collisionless Plasma Dissipation Channels in the Turbulent Magnetosheath Observed by the Magnetospheric Multiscale Mission. <i>Astrophysical Journal</i> , 2018 , 862, 32	4.7	43
364	The Rosetta Ion and Electron Sensor (IES) measurement of the development of pickup ions from comet 67P/Churyumov-Gerasimenko. <i>Geophysical Research Letters</i> , 2015 , 42, 3093-3099	4.9	43
363	Electron-Scale Quadrants of the Hall Magnetic Field Observed by the Magnetospheric Multiscale spacecraft during Asymmetric Reconnection. <i>Physical Review Letters</i> , 2017 , 118, 175101	7.4	42
362	Electron diffusion region during magnetopause reconnection with an intermediate guide field: Magnetospheric multiscale observations. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 5235-5246	2.6	41
361	MMS observations of ion-scale magnetic island in the magnetosheath turbulent plasma. <i>Geophysical Research Letters</i> , 2016 , 43, 7850-7858	4.9	41
360	On the electron diffusion region in asymmetric reconnection with a guide magnetic field. <i>Geophysical Research Letters</i> , 2016 , 43, 2359-2364	4.9	41
359	ON ELECTRON-SCALE WHISTLER TURBULENCE IN THE SOLAR WIND. <i>Astrophysical Journal Letters</i> , 2016 , 827, L8	7.9	41
358	Electron Heating at Kinetic Scales in Magnetosheath Turbulence. <i>Astrophysical Journal</i> , 2017 , 836, 247	4.7	40
357	Mass-loading, pile-up, and mirror-mode waves at comet 67P/Churyumov-Gerasimenko. <i>Annales Geophysicae</i> , 2016 , 34, 1-15	2	40
356	Magnetic Reconnection, Turbulence, and Particle Acceleration: Observations in the Earth's Magnetotail. <i>Geophysical Research Letters</i> , 2018 , 45, 3338-3347	4.9	40
355	Magnetospheric Multiscale Satellite Observations of Parallel Electron Acceleration in Magnetic Field Reconnection by Fermi Reflection from Time Domain Structures. <i>Physical Review Letters</i> , 2016 , 116, 145101	7.4	40
354	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> , 2018 , 123, 9941-9954	2.6	40
353	MMS Observations of Electrostatic Waves in an Oblique Shock Crossing. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 9430-9442	2.6	40
352	Large-scale characteristics of reconnection diffusion regions and associated magnetopause crossings observed by MMS. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 5466-5486	2.6	39
351	MMS Observations and Hybrid Simulations of Surface Ripples at a Marginally Quasi-Parallel Shock. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 11,003-11,017	2.6	39
350	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> , 2018 , 45, 578-584	4.9	39

349	In Situ Observation of Intermittent Dissipation at Kinetic Scales in the Earth's Magnetosheath. <i>Astrophysical Journal Letters</i> , 2018 , 856, L19	7.9	39
348	Magnetic reconnection and modification of the Hall physics due to cold ions at the magnetopause. <i>Geophysical Research Letters</i> , 2016 , 43, 6705-6712	4.9	39
347	Multispacecraft analysis of dipolarization fronts and associated whistler wave emissions using MMS data. <i>Geophysical Research Letters</i> , 2016 , 43, 7279-7286	4.9	38
346	ROSINA/DFMS and IES observations of 67P: Ion-neutral chemistry in the coma of a weakly outgassing comet. <i>Astronomy and Astrophysics</i> , 2015 , 583, A2	5.1	38
345	Statistical analysis of suprathermal electron drivers at 67P/Churyumov-Gerasimenko. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016 , 462, S312-S322	4.3	37
344	Instability of Agyrotropic Electron Beams near the Electron Diffusion Region. <i>Physical Review Letters</i> , 2017 , 119, 025101	7.4	37
343	Solar wind interactions with Comet 19P/Borrelly. <i>Icarus</i> , 2004 , 167, 80-88	3.8	37
342	Magnetotail reconnection onset caused by electron kinetics with a strong external driver. <i>Nature Communications</i> , 2020 , 11, 5049	17.4	37
341	Whistler mode waves and Hall fields detected by MMS during a dayside magnetopause crossing. <i>Geophysical Research Letters</i> , 2016 , 43, 5943-5952	4.9	36
340	MMS Multipoint electric field observations of small-scale magnetic holes. <i>Geophysical Research Letters</i> , 2016 , 43, 5953-5959	4.9	36
339	CME impact on comet 67P/Churyumov-Gerasimenko. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016 , 462, S45-S56	4.3	36
338	Global observations of proton and electron auroras in a substorm. <i>Geophysical Research Letters</i> , 2001 , 28, 1139-1142	4.9	36
337	Magnetospheric ion influence on magnetic reconnection at the duskside magnetopause. <i>Geophysical Research Letters</i> , 2016 , 43, 1435-1442	4.9	36
336	Kinetic evidence of magnetic reconnection due to Kelvin-Helmholtz waves. <i>Geophysical Research Letters</i> , 2016 , 43, 5635-5643	4.9	36
335	On the origin of the crescent-shaped distributions observed by MMS at the magnetopause. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 2024-2039	2.6	35
334	Drift waves, intense parallel electric fields, and turbulence associated with asymmetric magnetic reconnection at the magnetopause. <i>Geophysical Research Letters</i> , 2017 , 44, 2978-2986	4.9	35
333	Finite gyroradius effects in the electron outflow of asymmetric magnetic reconnection. <i>Geophysical Research Letters</i> , 2016 , 43, 6724-6733	4.9	34
332	Charge exchange in cometary coma: Discovery of H ions in the solar wind close to comet 67P/Churyumov-Gerasimenko. <i>Geophysical Research Letters</i> , 2015 , 42, 5125-5131	4.9	34

331	The Location of Magnetopause Reconnection for Northward and Southward Interplanetary Magnetic Field. <i>Geophysical Monograph Series</i> , 1994 , 183-197	1.1	34
330	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> , 2016 , 43, 7785-7794	4.9	33
329	Multipoint Measurements of the Electron Jet of Symmetric Magnetic Reconnection with a Moderate Guide Field. <i>Physical Review Letters</i> , 2017 , 118, 265101	7.4	33
328	Solar Wind Turbulence Studies Using MMS Fast Plasma Investigation Data. <i>Astrophysical Journal</i> , 2018 , 866, 81	4.7	33
327	Kinetic Alfvén wave explanation of the Hall fields in magnetic reconnection. <i>Geophysical Research Letters</i> , 2017 , 44, 634-640	4.9	32
326	The Effect of a Guide Field on Local Energy Conversion During Asymmetric Magnetic Reconnection: MMS Observations. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 11,342-11,353	2.6	32
325	Energy Range of Electron Rolling Pin Distribution Behind Dipolarization Front. <i>Geophysical Research Letters</i> , 2019 , 46, 2390-2398	4.9	32
324	A telescopic and microscopic view of a magnetospheric substorm on 31 March 2001. <i>Geophysical Research Letters</i> , 2002 , 29, 9-1-9-4	4.9	32
323	Incompressible Energy Transfer in the Earth's Magnetosheath: Magnetospheric Multiscale Observations. <i>Astrophysical Journal</i> , 2018 , 866, 106	4.7	32
322	Autogenous and efficient acceleration of energetic ions upstream of Earth's bow shock. <i>Nature</i> , 2018 , 561, 206-210	50.4	32
321	Observations of Whistler Waves Correlated with Electron-scale Coherent Structures in the Magnetosheath Turbulent Plasma. <i>Astrophysical Journal</i> , 2018 , 861, 29	4.7	32
320	Observations of Magnetic Reconnection in the Transition Region of Quasi-Parallel Shocks. <i>Geophysical Research Letters</i> , 2019 , 46, 1177-1184	4.9	31
319	An Electron-Scale Current Sheet Without Bursty Reconnection Signatures Observed in the Near-Earth Tail. <i>Geophysical Research Letters</i> , 2018 , 45, 4542-4549	4.9	31
318	MMS Examination of FTEs at the Earth's Subsolar Magnetopause. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 1224-1241	2.6	31
317	Localized Oscillatory Energy Conversion in Magnetopause Reconnection. <i>Geophysical Research Letters</i> , 2018 , 45, 1237-1245	4.9	31
316	Measurement of the Magnetic Reconnection Rate in the Earth's Magnetotail. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 9150-9168	2.6	31
315	Magnetospheric Multiscale mission observations of the outer electron diffusion region. <i>Geophysical Research Letters</i> , 2017 , 44, 2049-2059	4.9	30
314	Quadrupolar pattern of the asymmetric guide-field reconnection. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 6349-6356	2.6	30

313	Observations of the Electron Jet Generated by Secondary Reconnection in the Terrestrial Magnetotail. <i>Astrophysical Journal</i> , 2018 , 862, 144	4.7	30
312	Plasma source and loss at comet 67P during the Rosetta mission. <i>Astronomy and Astrophysics</i> , 2018 , 618, A77	5.1	30
311	On the cause of Saturn's plasma periodicity. <i>Geophysical Research Letters</i> , 2008 , 35,	4.9	29
310	Electron Bulk Acceleration and Thermalization at Earth's Quasiperpendicular Bow Shock. <i>Physical Review Letters</i> , 2018 , 120, 225101	7.4	29
309	Observational Evidence of Magnetic Reconnection in the Terrestrial Bow Shock Transition Region. <i>Geophysical Research Letters</i> , 2019 , 46, 562-570	4.9	28
308	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> , 2019 , 124, 3961-3978 ^{2.6}	2.6	28
307	Evidence for Secondary Flux Rope Generated by the Electron Kelvin-Helmholtz Instability in a Magnetic Reconnection Diffusion Region. <i>Physical Review Letters</i> , 2018 , 120, 075101	7.4	28
306	Magnetospheric ion influence at the dayside magnetopause. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 8617-8631	2.6	28
305	The occurrence and wave properties of EMIC waves observed by the Magnetospheric Multiscale (MMS) mission. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 8228-8240	2.6	28
304	The First two Years of Image. <i>Space Science Reviews</i> , 2003 , 109, 1-24	7.5	28
303	MMS observations of electron scale magnetic cavity embedded in proton scale magnetic cavity. <i>Nature Communications</i> , 2019 , 10, 1040	17.4	27
302	Electron Distribution Functions Around a Reconnection X-Line Resolved by the FOTE Method. <i>Geophysical Research Letters</i> , 2019 , 46, 1195-1204	4.9	27
301	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> , 2018 , 123, 6533-6547	2.6	27
300	Multiscale Currents Observed by MMS in the Flow Braking Region. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 1260-1278	2.6	27
299	Rippled Electron-Scale Structure of a Dipolarization Front. <i>Geophysical Research Letters</i> , 2018 , 45, 12,1164-12,1247	4.12	27
298	In Situ Observation of Hall Magnetohydrodynamic Cascade in Space Plasma. <i>Physical Review Letters</i> , 2020 , 124, 225101	7.4	26
297	Solar wind interaction with comet 67P: Impacts of corotating interaction regions. <i>Journal of Geophysical Research: Space Physics</i> , 2016 , 121, 949-965	2.6	26
296	In Situ Observation of Magnetic Reconnection Between an Earthward Propagating Flux Rope and the Geomagnetic Field. <i>Geophysical Research Letters</i> , 2018 , 45, 8729-8737	4.9	26

295	Turbulence in Three-Dimensional Simulations of Magnetopause Reconnection. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 11,086-11,099	2.6	25
294	Structure of the Current Sheet in the 11 July 2017 Electron Diffusion Region Event. <i>Journal of Geophysical Research: Space Physics</i> , 2019 , 124, 1173-1186	2.6	25
293	Evidence of Magnetic Nulls in Electron Diffusion Region. <i>Geophysical Research Letters</i> , 2019 , 46, 48-54	4.9	25
292	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> , 2014 , 119, 3683-3707	2.6	25
291	Microscopic, Multipoint Characterization of Foreshock Bubbles With Magnetospheric Multiscale (MMS). <i>Journal of Geophysical Research: Space Physics</i> , 2020 , 125, e2019JA027707	2.6	25
290	Lower Hybrid Drift Waves and Electromagnetic Electron Space-Phase Holes Associated With Dipolarization Fronts and Field-Aligned Currents Observed by the Magnetospheric Multiscale Mission During a Substorm. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 12,236-12,257	2.6	24
289	Three-Dimensional Magnetic Reconnection With a Spatially Confined X-Line Extent: Implications for Dipolarizing Flux Bundles and the Dawn-Dusk Asymmetry. <i>Journal of Geophysical Research: Space Physics</i> , 2019 , 124, 2819-2830	2.6	24
288	MMS Observation of Asymmetric Reconnection Supported by 3-D Electron Pressure Divergence. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 1806	2.6	24
287	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> , 2018 , 123, 1779	2.6	24
286	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> , 2016 , 43, 4808-4815	4.9	24
285	Evidence of Electron Acceleration at a Reconnecting Magnetopause. <i>Geophysical Research Letters</i> , 2019 , 46, 5645-5652	4.9	24
284	Ion chemistry in the coma of comet 67P near perihelion. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016 , 462, S67-S77	4.3	24
283	Energy Conversion and Dissipation at Dipolarization Fronts: A Statistical Overview. <i>Geophysical Research Letters</i> , 2019 , 46, 12693-12701	4.9	24
282	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> , 2018 , 123, 1834-1852	2.6	24
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