Robert J Strangeway

List of Publications by Year
in descending order

310 papers	13,902 citations	26567 56 h-index	31759 101 g-index
335 all docs	335 docs citations	335 times ranked	3935 citing authors

#	Article	IF	Citations
1	The Magnetospheric Multiscale Magnetometers. Space Science Reviews, 2016, 199, 189-256.	3.7	896
2	Electron-scale measurements of magnetic reconnection in space. Science, 2016, 352, aaf2939.	6.0	545
3	FAST satellite observations of large-amplitude solitary structures. Geophysical Research Letters, 1998, 25, 2041-2044.	1.5	504
4	The Electric Field and Waves Instruments on the Radiation Belt Storm Probes Mission. Space Science Reviews, 2013, 179, 183-220.	3.7	421
5	The FIELDS Instrument Suite on MMS: Scientific Objectives, Measurements, and Data Products. Space Science Reviews, 2016, 199, 105-135.	3.7	390
6	FAST observations in the downward auroral current region: Energetic upgoing electron beams, parallel potential drops, and ion heating. Geophysical Research Letters, 1998, 25, 2017-2020.	1.5	273
7	Electron magnetic reconnection without ion coupling in Earthâ€™s turbulent magnetosheath. Nature, 2018, 557, 202-206.	13.7	263
8	Debye-Scale Plasma Structures Associated with Magnetic-Field-Aligned Electric Fields. Physical Review Letters, 1998, 81, 826-829.	2.9	238
9	Factors controlling ionospheric outflows as observed at intermediate altitudes. Journal of Geophysical Research, 2005, 110, .	3.3	238
10	Electron-scale dynamics of the diffusion region during symmetric magnetic reconnection in space. Science, 2018, 362, 1391-1395.	6.0	221
11	FAST satellite wave observations in the AKR source region. Geophysical Research Letters, 1998, 25, 2061-2064.	1.5	177
12	Observation of two distinct, rapid loss mechanisms during the 20 November 2003 radiation belt dropout event. Journal of Geophysical Research, 2006, 111, .	3.3	172
13	Properties of small-scale AlfvÃ©n waves and accelerated electrons from FAST. Journal of Geophysical Research, 2003, 108, .	3.3	160
14	FAST observations of electron distributions within AKR source regions. Geophysical Research Letters, 1998, 25, 2069-2072.	1.5	145
15	Auroral ion acceleration in dispersive AlfvÃ©n waves. Journal of Geophysical Research, 2004, 109, .	3.3	137
16	ION CYCLOTRON WAVES IN THE SOLAR WIND OBSERVED BY STEREO NEAR 1 AU. Astrophysical Journal, 2009, 701, L105-L109.	1.6	126
17	Impact of space weather on climate and habitability of terrestrial-type exoplanets. International Journal of Astrobiology, 2020, 19, 136-194.	0.9	125
18	Energy deposition by AlfvÃ©n waves into the dayside auroral oval: Cluster and FAST observations. Journal of Geophysical Research, 2005, 110, .	3.3	113

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19	How important are dispersive AlfvÃ©n waves for auroral particle acceleration?. Geophysical Research Letters, 2007, 34, .	1.5	113
20	parallel electric fields in discrete arcs. Geophysical Research Letters, 2000, 27, 4053-4056.	1.5	111
21	Lower hybrid waves in the ion diffusion and magnetospheric inflow regions. Journal of Geophysical Research: Space Physics, 2017, 122, 517-533.	0.8	108
22	Magnetosphere Sawtooth Oscillations Induced by Ionospheric Outflow. Science, 2011, 332, 1183-1186.	6.0	106
23	FAST observations of VLF waves in the auroral zone: Evidence of very low plasma densities. Geophysical Research Letters, 1998, 25, 2065-2068.	1.5	105
24	Magnetospheric Multiscale observations of magnetic reconnection associated with Kelvinâ€Helmholtz waves. Geophysical Research Letters, 2016, 43, 5606-5615.	1.5	104
25	Ionospheric erosion by AlfvÃ©n waves. Journal of Geophysical Research, 2006, 111, .	3.3	102
26	Electron acceleration in the ionospheric Alfven resonator. Journal of Geophysical Research, 2002, 107, SMP 41-1.	3.3	101
27	MMS observations of electronâ€scale filamentary currents in the reconnection exhaust and near the X line. Geophysical Research Letters, 2016, 43, 6060-6069.	1.5	99
28	Ionâ€scale secondary flux ropes generated by magnetopause reconnection as resolved by MMS. Geophysical Research Letters, 2016, 43, 4716-4724.	1.5	95
29	Shock aurora: FAST and DMSP observations. Journal of Geophysical Research, 2003, 108, .	3.3	94
30	Electron scale structures and magnetic reconnection signatures in the turbulent magnetosheath. Geophysical Research Letters, 2016, 43, 5969-5978.	1.5	92
31	Rippled Quasiperpendicular Shock Observed by the Magnetospheric Multiscale Spacecraft. Physical Review Letters, 2016, 117, 165101.	2.9	87
32	Estimates of terms in Ohm's law during an encounter with an electron diffusion region. Geophysical Research Letters, 2016, 43, 5918-5925.	1.5	86
33	Magnetospheric Multiscale Observations of Electron Vortex Magnetic Hole in the Turbulent Magnetosheath Plasma. Astrophysical Journal Letters, 2017, 836, L27.	3.0	85
34	The auroral current circuit and field-aligned currents observed by FAST. Geophysical Research Letters, 1998, 25, 2033-2036.	1.5	84
35	MMS observations of large guide field symmetric reconnection between colliding reconnection jets at the center of a magnetic flux rope at the magnetopause. Geophysical Research Letters, 2016, 43, 5536-5544.	1.5	84
36	The association of electrostatic ion cyclotron waves, ion and electron beams and field-aligned currents: FAST observations of an auroral zone crossing near midnight. Geophysical Research Letters, 1998, 25, 2053-2056.	1.5	83

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37	Currents and associated electron scattering and bouncing near the diffusion region at Earth's magnetopause. Geophysical Research Letters, 2016, 43, 3042-3050.	1.5	81
38	Observations of turbulence in a Kelvinâ€Helmholtz event on 8 September 2015 by the Magnetospheric Multiscale mission. Journal of Geophysical Research: Space Physics, 2016, 121, 11,021.	0.8	81
39	A simulation study of kilometric radiation generation along an auroral field line. Journal of Geophysical Research, 1985, 90, 9650-9662.	3.3	80
40	Properties of the Turbulence Associated with Electron-only Magnetic Reconnection in Earthâ€™s Magnetosheath. Astrophysical Journal Letters, 2019, 877, L37.	3.0	80
41	Observations of an Electron Diffusion Region in Symmetric Reconnection with Weak Guide Field. Astrophysical Journal, 2019, 870, 34.	1.6	79
42	Magnetotail reconnection onset caused by electron kinetics with a strong external driver. Nature Communications, 2020, 11, 5049.	5.8	75
43	Magnetospheric Multiscale Observations of the Electron Diffusion Region of Large Guide Field Magnetic Reconnection. Physical Review Letters, 2016, 117, 015001.	2.9	74
44	Wave-particle energy exchange directly observed in a kinetic AlfvÃ©n-branch wave. Nature Communications, 2017, 8, 14719.	5.8	73
45	MMS Observation of Magnetic Reconnection in the Turbulent Magnetosheath. Journal of Geophysical Research: Space Physics, 2017, 122, 11,442.	0.8	73
46	Width and brightness of auroral arcs driven by inertial Alfven waves. Journal of Geophysical Research, 2003, 108, .	3.3	72
47	Coalescence of Macroscopic Flux Ropes at the Subsolar Magnetopause: Magnetospheric Multiscale Observations. Physical Review Letters, 2017, 119, 055101.	2.9	72
48	Observations of ion cyclotron waves in the solar wind near 0.3 AU. Journal of Geophysical Research, 2010, 115, .	3.3	70
49	Generation and propagation of cyclotron maser emissions in the finite auroral kilometric radiation source cavity. Journal of Geophysical Research, 2002, 107, SMP 13-1-SMP 13-17.	3.3	69
50	Magnetic Reconnection, Turbulence, and Particle Acceleration: Observations in the Earth's Magnetotail. Geophysical Research Letters, 2018, 45, 3338-3347.	1.5	69
51	Ion cyclotron waves in the Io torus during the Galileo encounter: Warm plasma dispersion analysis. Geophysical Research Letters, 1997, 24, 2143-2146.	1.5	67
52	Electron energization and mixing observed by MMS in the vicinity of an electron diffusion region during magnetopause reconnection. Geophysical Research Letters, 2016, 43, 6036-6043.	1.5	67
53	Electron jet of asymmetric reconnection. Geophysical Research Letters, 2016, 43, 5571-5580.	1.5	66
54	Magnetospheric Multiscale observations of largeâ€amplitude, parallel, electrostatic waves associated with magnetic reconnection at the magnetopause. Geophysical Research Letters, 2016, 43, 5626-5634.	1.5	66

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55	Ion cyclotron waves in Saturn's E ring: Initial Cassini observations. Geophysical Research Letters, 2006, 33, .	1.5	65
56	Magnetospheric Multiscale Satellites Observations of Parallel Electric Fields Associated with Magnetic Reconnection. Physical Review Letters, 2016, 116, 235102.	2.9	61
57	Observations of whistler mode waves with nonlinear parallel electric fields near the dayside magnetic reconnection separatrix by the Magnetospheric Multiscale mission. Geophysical Research Letters, 2016, 43, 5909-5917.	1.5	61
58	MMS Observations of Electrostatic Waves in an Oblique Shock Crossing. Journal of Geophysical Research: Space Physics, 2018, 123, 9430-9442.	0.8	58
59	The FAST Satellite Fields Instrument. Space Science Reviews, 2001, 98, 67-91.	3.7	57
60	Temporal and spatial characteristics of Pc1 waves observed by ST5. Journal of Geophysical Research, 2008, 113, .	3.3	55
61	MMS observations of ionâ€scale magnetic island in the magnetosheath turbulent plasma. Geophysical Research Letters, 2016, 43, 7850-7858.	1.5	53
62	Electron currents and heating in the ion diffusion region of asymmetric reconnection. Geophysical Research Letters, 2016, 43, 4691-4700.	1.5	53
63	MMS Observations and Hybrid Simulations of Surface Ripples at a Marginally Quasiâ€Parallel Shock. Journal of Geophysical Research: Space Physics, 2017, 122, 11,003.	0.8	53
64	Electron diffusion region during magnetopause reconnection with an intermediate guide field: Magnetospheric multiscale observations. Journal of Geophysical Research: Space Physics, 2017, 122, 5235-5246.	0.8	52
65	Electron Crescent Distributions as a Manifestation of Diamagnetic Drift in an Electronâ€Scale Current Sheet: Magnetospheric Multiscale Observations Using New 7.5Âms Fast Plasma Investigation Moments. Geophysical Research Letters, 2018, 45, 578-584.	1.5	52
66	Kinetic effects in the acceleration of auroral electrons in small scale Alfven waves: A FAST case study. Geophysical Research Letters, 2003, 30, .	1.5	51
67	Energy limits of electron acceleration in the plasma sheet during substorms: A case study with the Magnetospheric Multiscale (MMS) mission. Geophysical Research Letters, 2016, 43, 7785-7794.	1.5	51
68	Higherâ€Order Turbulence Statistics in the Earth's Magnetosheath and the Solar Wind Using Magnetospheric Multiscale Observations. Journal of Geophysical Research: Space Physics, 2018, 123, 9941-9954.	0.8	51
69	Observations of Magnetic Reconnection in the Transition Region of Quasiâ€Parallel Shocks. Geophysical Research Letters, 2019, 46, 1177-1184.	1.5	51
70	Electron Heating at Kinetic Scales in Magnetosheath Turbulence. Astrophysical Journal, 2017, 836, 247.	1.6	50
71	Electron phase-space holes and the VLF saucer source region. Geophysical Research Letters, 2001, 28, 3805-3808.	1.5	49
72	Polar study of ionospheric ion outflow versus energy input. Journal of Geophysical Research, 2005, 110, .	3.3	49

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73	A global multispecies singleâ€fluid MHD study of the plasma interaction around Venus. Journal of Geophysical Research: Space Physics, 2013, 118, 321-330.	0.8	49
74	Electron dynamics in a subprotonâ€gyroscale magnetic hole. Geophysical Research Letters, 2016, 43, 4112-4118.	1.5	49
75	Multispacecraft analysis of dipolarization fronts and associated whistler wave emissions using MMS data. Geophysical Research Letters, 2016, 43, 7279-7286.	1.5	49
76	Largeâ€scale characteristics of reconnection diffusion regions and associated magnetopause crossings observed by MMS. Journal of Geophysical Research: Space Physics, 2017, 122, 5466-5486.	0.8	48
77	Solar Wind Turbulence Studies Using MMS Fast Plasma Investigation Data. Astrophysical Journal, 2018, 866, 81.	1.6	48
78	Kinetic evidence of magnetic reconnection due to Kelvinâ€Helmholtz waves. Geophysical Research Letters, 2016, 43, 5635-5643.	1.5	47
79	Autogenous and efficient acceleration of energetic ions upstream of Earthâ€™s bow shock. Nature, 2018, 561, 206-210.	13.7	47
80	Drift waves, intense parallel electric fields, and turbulence associated with asymmetric magnetic reconnection at the magnetopause. Geophysical Research Letters, 2017, 44, 2978-2986.	1.5	46
81	Whistler mode waves and Hall fields detected by MMS during a dayside magnetopause crossing. Geophysical Research Letters, 2016, 43, 5943-5952.	1.5	44
82	Multipoint Measurements of the Electron Jet of Symmetric Magnetic Reconnection with a Moderate Guide Field. Physical Review Letters, 2017, 118, 265101.	2.9	44
83	The spatial extent of radial magnetic pulsation events observed in the dayside near synchronous orbit. Journal of Geophysical Research, 1992, 97, 13741-13758.	3.3	43
84	On the origin of the crescentâ€shaped distributions observed by MMS at the magnetopause. Journal of Geophysical Research: Space Physics, 2017, 122, 2024-2039.	0.8	43
85	Global observations of magnetospheric highâ€m poloidal waves during the 22 June 2015 magnetic storm. Geophysical Research Letters, 2017, 44, 3456-3464.	1.5	43
86	Solitary Waves Across Supercritical Quasiâ€Perpendicular Shocks. Geophysical Research Letters, 2018, 45, 5809-5817.	1.5	43
87	In Situ Observation of Hall Magnetohydrodynamic Cascade in Space Plasma. Physical Review Letters, 2020, 124, 225101.	2.9	43
88	Magnetospheric ion influence on magnetic reconnection at the duskside magnetopause. Geophysical Research Letters, 2016, 43, 1435-1442.	1.5	42
89	MMS Multipoint electric field observations of smallâ€scale magnetic holes. Geophysical Research Letters, 2016, 43, 5953-5959.	1.5	42
90	Multipoint Observations of Energetic Particle Injections and Substorm Activity During a Conjunction Between Magnetospheric Multiscale (MMS) and Van Allen Probes. Journal of Geophysical Research: Space Physics, 2017, 122, 11,481.	0.8	42

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91	Incompressive Energy Transfer in the Earthâ€™s Magnetosheath: Magnetospheric Multiscale Observations. Astrophysical Journal, 2018, 866, 106.	1.6	42
92	Species dependent energies in upward directed ion beams over auroral arcs as observed with FAST TEAMS. Geophysical Research Letters, 1998, 25, 2029-2032.	1.5	41
93	Magnetospheric Multiscale mission observations of the outer electron diffusion region. Geophysical Research Letters, 2017, 44, 2049-2059.	1.5	41
94	Localized Oscillatory Energy Conversion in Magnetopause Reconnection. Geophysical Research Letters, 2018, 45, 1237-1245.	1.5	41
95	Statistics of Kinetic Dissipation in the Earthâ€™s Magnetosheath: MMS Observations. Physical Review Letters, 2020, 124, 255101.	2.9	41
96	FAST observations of preferentially accelerated He+in association with auroral electromagnetic ion cyclotron waves. Geophysical Research Letters, 1998, 25, 2049-2052.	1.5	40
97	Sbursts and the Jupiter ionospheric AlfvÃ©n resonator. Journal of Geophysical Research, 2006, 111, .	3.3	40
98	Space Technology 5 multiâ€point measurements of nearâ€Earth magnetic fields: Initial results. Geophysical Research Letters, 2008, 35, .	1.5	40
99	The Role of the Parallel Electric Field in Electronâ€Scale Dissipation at Reconnecting Currents in the Magnetosheath. Journal of Geophysical Research: Space Physics, 2018, 123, 6533-6547.	0.8	40
100	Large parallel electric fields, currents, and density cavities in dispersive AlfvÃ©n waves above the aurora. Journal of Geophysical Research, 2007, 112, n/a-n/a.	3.3	39
101	MMS Examination of FTEs at the Earth's Subsolar Magnetopause. Journal of Geophysical Research: Space Physics, 2018, 123, 1224-1241.	0.8	39
102	Determining Lâ€Mâ€N Current Sheet Coordinates at the Magnetopause From Magnetospheric Multiscale Data. Journal of Geophysical Research: Space Physics, 2018, 123, 2274-2295.	0.8	38
103	Electron Bulk Acceleration and Thermalization at Earthâ€™s Quasiperpendicular Bow Shock. Physical Review Letters, 2018, 120, 225101.	2.9	38
104	Polynomial Reconstruction of the Reconnection Magnetic Field Observed by Multiple Spacecraft. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027481.	0.8	38
105	A comparative study of dipolarization fronts at MMS and Cluster. Geophysical Research Letters, 2016, 43, 6012-6019.	1.5	37
106	Finite gyroradius effects in the electron outflow of asymmetric magnetic reconnection. Geophysical Research Letters, 2016, 43, 6724-6733.	1.5	37
107	In Situ Observation of Magnetic Reconnection Between an Earthward Propagating Flux Rope and the Geomagnetic Field. Geophysical Research Letters, 2018, 45, 8729-8737.	1.5	37
108	The equivalence of Joule dissipation and frictional heating in the collisional ionosphere. Journal of Geophysical Research, 2012, 117, .	3.3	36

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109	Magnetopause erosion during the 17 March 2015 magnetic storm: Combined fieldâ€aligned currents, auroral oval, and magnetopause observations. Geophysical Research Letters, 2016, 43, 2396-2404.	1.5	36
110	Motion of the MMS spacecraft relative to the magnetic reconnection structure observed on 16 October 2015 at 1307ÂUT. Geophysical Research Letters, 2016, 43, 5589-5596.	1.5	36
111	Direct measurements of two-way wave-particle energy transfer in a collisionless space plasma. Science, 2018, 361, 1000-1003.	6.0	36
112	Reconnection With Magnetic Flux Pileup at the Interface of Converging Jets at the Magnetopause. Geophysical Research Letters, 2019, 46, 1937-1946.	1.5	36
113	Observations of Particle Acceleration in Magnetic Reconnectionâ€“driven Turbulence. Astrophysical Journal, 2020, 898, 154.	1.6	36
114	Magnetospheric response and reconfiguration times following IMF B_y reversals. Journal of Geophysical Research: Space Physics, 2017, 122, 417-431.	0.8	35
115	Simultaneous Multispacecraft Probing of Electron Phase Space Holes. Geophysical Research Letters, 2018, 45, 11,513.	1.5	35
116	Guide Field Reconnection: Exhaust Structure and Heating. Geophysical Research Letters, 2018, 45, 4569-4577.	1.5	34
117	Structure of the Current Sheet in the 11 July 2017 Electron Diffusion Region Event. Journal of Geophysical Research: Space Physics, 2019, 124, 1173-1186.	0.8	34
118	Electrostatic Turbulence and Debye-scale Structures in Collisionless Shocks. Astrophysical Journal Letters, 2020, 889, L9.	3.0	34
119	The substructure of a flux transfer event observed by the MMS spacecraft. Geophysical Research Letters, 2016, 43, 9434-9443.	1.5	33
120	Electron Diffusion Regions in Magnetotail Reconnection Under Varying Guide Fields. Geophysical Research Letters, 2019, 46, 6230-6238.	1.5	33
121	Observation of highâ€frequency electrostatic waves in the vicinity of the reconnection ion diffusion region by the spacecraft of the Magnetospheric Multiscale (MMS) mission. Geophysical Research Letters, 2016, 43, 4808-4815.	1.5	32
122	Magnetospheric ion influence at the dayside magnetopause. Journal of Geophysical Research: Space Physics, 2017, 122, 8617-8631.	0.8	32
123	Multiscale Currents Observed by MMS in the Flow Braking Region. Journal of Geophysical Research: Space Physics, 2018, 123, 1260-1278.	0.8	32
124	Magnetospheric Multiscale Observations of an Ion Diffusion Region With Large Guide Field at the Magnetopause: Current System, Electron Heating, and Plasma Waves. Journal of Geophysical Research: Space Physics, 2018, 123, 1834-1852.	0.8	32
125	The Hall Electric Field in Earth's Magnetotail Thin Current Sheet. Journal of Geophysical Research: Space Physics, 2019, 124, 1052-1062.	0.8	32
126	Highâ€Frequency Wave Generation in Magnetotail Reconnection: Linear Dispersion Analysis. Geophysical Research Letters, 2019, 46, 4089-4097.	1.5	32

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127	Statistics of Reconnecting Current Sheets in the Transition Region of Earth's Bow Shock. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027119.	0.8	32
128	Behavior of current sheets at directional magnetic discontinuities in the solar wind at 0.72 AU. Geophysical Research Letters, 2008, 35, .	1.5	31
129	Lower Hybrid Drift Waves and Electromagnetic Electron Spaceâ€Phase Holes Associated With Dipolarization Fronts and Fieldâ€Aligned Currents Observed by the Magnetospheric Multiscale Mission During a Substorm. Journal of Geophysical Research: Space Physics, 2017, 122, 12,236.	0.8	31
130	Electron Phaseâ€Space Holes in Three Dimensions: Multispacecraft Observations by Magnetospheric Multiscale. Journal of Geophysical Research: Space Physics, 2018, 123, 9963-9978.	0.8	31
131	Multisatellite MMS Analysis of Electron Holes in the Earth's Magnetotail: Origin, Properties, Velocity Gap, and Transverse Instability. Journal of Geophysical Research: Space Physics, 2020, 125, e2020JA028066.	0.8	31
132	Magnetic Field Instruments for the Fast Auroral Snapshot Explorer. Space Science Reviews, 2001, 98, 151-168.	3.7	30
133	Transient, smallâ€scale fieldâ€aligned currents in the plasma sheet boundary layer during storm time substorms. Geophysical Research Letters, 2016, 43, 4841-4849.	1.5	30
134	A telescopic and microscopic examination of acceleration in the June 2015 geomagnetic storm: Magnetospheric Multiscale and Van Allen Probes study of substorm particle injection. Geophysical Research Letters, 2016, 43, 6051-6059.	1.5	30
135	High-resolution Statistics of Solar Wind Turbulence at Kinetic Scales Using the Magnetospheric Multiscale Mission. Astrophysical Journal Letters, 2017, 844, L9.	3.0	30
136	FAST/Polar conjunction study of field-aligned auroral acceleration and corresponding magnetotail drivers. Journal of Geophysical Research, 2003, 108, .	3.3	29
137	Dayside Aurora. Space Science Reviews, 2019, 215, 1.	3.7	29
138	EMIC Waves in the Outer Magnetosphere: Observations of an Offâ€Equator Source Region. Geophysical Research Letters, 2019, 46, 5707-5716.	1.5	29
139	A New Method of 3â€D Magnetic Field Reconstruction. Geophysical Research Letters, 2020, 47, e2019GL085542.	1.5	29
140	Empirical model of Poynting flux derived from FAST data and a cusp signature. Journal of Geophysical Research: Space Physics, 2014, 119, 411-430.	0.8	28
141	Decay of mesoscale flux transfer events during quasiâ€continuous spatially extended reconnection at the magnetopause. Geophysical Research Letters, 2016, 43, 4755-4762.	1.5	28
142	Ion Kinetics in a Hot Flow Anomaly: MMS Observations. Geophysical Research Letters, 2018, 45, 11,520.	1.5	28
143	Force balance at the magnetopause determined with MMS: Application to flux transfer events. Geophysical Research Letters, 2016, 43, 11,941.	1.5	27
144	Reconstruction of the electron diffusion region observed by the Magnetospheric Multiscale spacecraft: First results. Geophysical Research Letters, 2017, 44, 4566-4574.	1.5	27

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145	Largeâ€Scale Survey of the Structure of the Dayside Magnetopause by MMS. Journal of Geophysical Research: Space Physics, 2018, 123, 2018-2033.	0.8	27
146	How the IMF B_y Induces a Local B_y Component During Northward IMF B_z and Characteristic Timescales. Journal of Geophysical Research: Space Physics, 2018, 123, 3333-3348.	0.8	27
147	Generation of Electron Whistler Waves at the Mirror Mode Magnetic Holes: MMS Observations and PIC Simulation. Journal of Geophysical Research: Space Physics, 2018, 123, 6383-6393.	0.8	27
148	On the Kinetic Nature of Solar Wind Discontinuities. Geophysical Research Letters, 2019, 46, 1185-1194.	1.5	27
149	Electron plasma oscillations in the Venus foreshock. Geophysical Research Letters, 1990, 17, 1805-1808.	1.5	26
150	Photoelectron flows in the polar wind during geomagnetically quiet periods. Journal of Geophysical Research, 2012, 117, .	3.3	26
151	Observations of largeâ€amplitude, parallel, electrostatic waves associated with the Kelvinâ€Helmholtz instability by the magnetospheric multiscale mission. Geophysical Research Letters, 2016, 43, 8859-8866.	1.5	26
152	The MMS Dayside Magnetic Reconnection Locations During Phase 1 and Their Relation to the Predictions of the Maximum Magnetic Shear Model. Journal of Geophysical Research: Space Physics, 2017, 122, 11,991.	0.8	26
153	The Properties of Lion Roars and Electron Dynamics in Mirror Mode Waves Observed by the Magnetospheric MultiScale Mission. Journal of Geophysical Research: Space Physics, 2018, 123, 93-103.	0.8	26
154	Magnetic Reconnection Inside a Flux Rope Induced by Kelvinâ€Helmholtz Vortices. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027665.	0.8	26
155	VLF bursts in the night ionosphere of Venus: Estimates of the Poynting flux. Geophysical Research Letters, 1989, 16, 579-582.	1.5	25
156	Energy partitioning constraints at kinetic scales in low-Î² turbulence. Physics of Plasmas, 2018, 25, .	0.7	25
157	Reconstruction of the Electron Diffusion Region of Magnetotail Reconnection Seen by the MMS Spacecraft on 11 July 2017. Journal of Geophysical Research: Space Physics, 2019, 124, 122-138.	0.8	25
158	FAST observations of discrete electrostatic waves in association with down-going ion beams in the auroral zone. Journal of Geophysical Research, 2002, 107, SMP 12-1.	3.3	24
159	Space Technology 5 observations of the imbalance of regions 1 and 2 fieldâ€aligned currents and its implication to the crossâ€polar cap Pedersen currents. Journal of Geophysical Research, 2010, 115, .	3.3	24
160	In situ observations of the â€œpreexisting auroral arcâ€• by THEMIS all sky imagers and the FAST spacecraft. Journal of Geophysical Research, 2012, 117, .	3.3	24
161	Characteristics of electromagnetic proton cyclotron waves along auroral field lines observed by FAST in regions of upward current. Geophysical Research Letters, 1998, 25, 2057-2060.	1.5	23
162	Observations of energetic particle escape at the magnetopause: Early results from the MMS Energetic Ion Spectrometer (EIS). Geophysical Research Letters, 2016, 43, 5960-5968.	1.5	23

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163	Smallâ€Scale Flux Transfer Events Formed in the Reconnection Exhaust Region Between Two X Lines. Journal of Geophysical Research: Space Physics, 2018, 123, 8473-8488.	0.8	23
164	New Insights into the Nature of Turbulence in the Earth's Magnetosheath Using Magnetospheric MultiScale Mission Data. Astrophysical Journal, 2018, 859, 127.	1.6	23
165	Electron Vorticity Indicative of the Electron Diffusion Region of Magnetic Reconnection. Geophysical Research Letters, 2019, 46, 6287-6296.	1.5	23
166	Electron Inflow Velocities and Reconnection Rates at Earth's Magnetopause and Magnetosheath. Geophysical Research Letters, 2020, 47, e2020GL089082.	1.5	23
167	Optimized merging of search coil and fluxgate data for MMS. Geoscientific Instrumentation, Methods and Data Systems, 2016, 5, 521-530.	0.6	22
168	Magnetospheric Multiscale Mission observations and nonâ€force free modeling of a flux transfer event immersed in a superâ€AlfvÃ©nic flow. Geophysical Research Letters, 2016, 43, 6070-6077.	1.5	22
169	The nonlinear behavior of whistler waves at the reconnecting dayside magnetopause as observed by the Magnetospheric Multiscale mission: A case study. Journal of Geophysical Research: Space Physics, 2017, 122, 5487-5501.	0.8	22
170	FAST observations of upward accelerated electron beams and the downward field-aligned current region. Geophysical Monograph Series, 2000, , 173-180.	0.1	21
171	Characteristics of field-aligned currents near the auroral acceleration region: FAST observations. Geophysical Monograph Series, 2000, , 181-189.	0.1	21
172	Magnetic field gradients from the STâ€5 constellation: Improving magnetic and thermal models of the lithosphere. Geophysical Research Letters, 2007, 34, .	1.5	21
173	Shock aurora: Groundâ€based imager observations. Journal of Geophysical Research, 2009, 114, .	3.3	21
174	â€œLomonosovâ€•Satelliteâ€”Space Observatory to Study Extreme Phenomena in Space. Space Science Reviews, 2017, 212, 1705-1738.	3.7	21
175	MMS Observations of Beta-dependent Constraints on Ion Temperature Anisotropy in Earthâ€™s Magnetosheath. Astrophysical Journal, 2018, 866, 25.	1.6	21
176	Observational Evidence of Largeâ€Scale Multiple Reconnection at the Earth's Dayside Magnetopause. Journal of Geophysical Research: Space Physics, 2018, 123, 8407-8421.	0.8	21
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