

Robert J Strangeway

List of Publications by Citations

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306
papers

10,668
citations

52
h-index

89
g-index

335
ext. papers

12,233
ext. citations

5.1
avg, IF

5.57
L-index

#	Paper	IF	Citations
306	The Magnetospheric Multiscale Magnetometers. <i>Space Science Reviews</i> , 2016 , 199, 189-256	7.5	670
305	Electron-scale measurements of magnetic reconnection in space. <i>Science</i> , 2016 , 352, aaf2939	33.3	418
304	FAST satellite observations of large-amplitude solitary structures. <i>Geophysical Research Letters</i> , 1998 , 25, 2041-2044	4.9	410
303	The Electric Field and Waves Instruments on the Radiation Belt Storm Probes Mission. <i>Space Science Reviews</i> , 2013 , 179, 183-220	7.5	360
302	The FIELDS Instrument Suite on MMS: Scientific Objectives, Measurements, and Data Products. <i>Space Science Reviews</i> , 2016 , 199, 105-135	7.5	292
301	FAST observations in the downward auroral current region: Energetic upgoing electron beams, parallel potential drops, and ion heating. <i>Geophysical Research Letters</i> , 1998 , 25, 2017-2020	4.9	236
300	Debye-Scale Plasma Structures Associated with Magnetic-Field-Aligned Electric Fields. <i>Physical Review Letters</i> , 1998 , 81, 826-829	7.4	210
299	Factors controlling ionospheric outflows as observed at intermediate altitudes. <i>Journal of Geophysical Research</i> , 2005 , 110,		199
298	Electron magnetic reconnection without ion coupling in Earth's turbulent magnetosheath. <i>Nature</i> , 2018 , 557, 202-206	50.4	173
297	Observation of two distinct, rapid loss mechanisms during the 20 November 2003 radiation belt dropout event. <i>Journal of Geophysical Research</i> , 2006 , 111,		158
296	FAST satellite wave observations in the AKR source region. <i>Geophysical Research Letters</i> , 1998 , 25, 2061-2064	4.9	158
295	Properties of small-scale Alfvén waves and accelerated electrons from FAST. <i>Journal of Geophysical Research</i> , 2003 , 108,		146
294	Electron-scale dynamics of the diffusion region during symmetric magnetic reconnection in space. <i>Science</i> , 2018 , 362, 1391-1395	33.3	139
293	FAST observations of electron distributions within AKR source regions. <i>Geophysical Research Letters</i> , 1998 , 25, 2069-2072	4.9	125
292	Auroral ion acceleration in dispersive Alfvén waves. <i>Journal of Geophysical Research</i> , 2004 , 109,		114
291	ION CYCLOTRON WAVES IN THE SOLAR WIND OBSERVED BY STEREO NEAR 1 AU. <i>Astrophysical Journal</i> , 2009 , 701, L105-L109	4.7	106
290	parallel electric fields in discrete arcs. <i>Geophysical Research Letters</i> , 2000 , 27, 4053-4056	4.9	102

289	Energy deposition by Alfvén waves into the dayside auroral oval: Cluster and FAST observations. <i>Journal of Geophysical Research</i> , 2005 , 110,		100
288	How important are dispersive Alfvén waves for auroral particle acceleration?. <i>Geophysical Research Letters</i> , 2007 , 34,	4.9	98
287	FAST observations of VLF waves in the auroral zone: Evidence of very low plasma densities. <i>Geophysical Research Letters</i> , 1998 , 25, 2065-2068	4.9	96
286	Magnetosphere sawtooth oscillations induced by ionospheric outflow. <i>Science</i> , 2011 , 332, 1183-6	33.3	89
285	Magnetospheric Multiscale observations of magnetic reconnection associated with Kelvin-Helmholtz waves. <i>Geophysical Research Letters</i> , 2016 , 43, 5606-5615	4.9	84
284	Ionospheric erosion by Alfvén waves. <i>Journal of Geophysical Research</i> , 2006 , 111,		84
283	Shock aurora: FAST and DMSP observations. <i>Journal of Geophysical Research</i> , 2003 , 108,		83
282	Electron acceleration in the ionospheric Alfvén resonator. <i>Journal of Geophysical Research</i> , 2002 , 107, SMP 41-1		82
281	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
280	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
279	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
278	The association of electrostatic ion cyclotron waves, ion and electron beams and field-aligned currents: FAST observations of an auroral zone crossing near midnight. <i>Geophysical Research Letters</i> , 1998 , 25, 2053-2056	4.9	74
277	A simulation study of kilometric radiation generation along an auroral field line. <i>Journal of Geophysical Research</i> , 1985 , 90, 9650		74
276	Electron scale structures and magnetic reconnection signatures in the turbulent magnetosheath. <i>Geophysical Research Letters</i> , 2016 , 43, 5969-5978	4.9	72
275	The auroral current circuit and field-aligned currents observed by FAST. <i>Geophysical Research Letters</i> , 1998 , 25, 2033-2036	4.9	71
274	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
273	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
272	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

271	Magnetospheric Multiscale Observations of Electron Vortex Magnetic Hole in the Turbulent Magnetosheath Plasma. <i>Astrophysical Journal Letters</i> , 2017 , 836, L27	7.9	63
270	Ion cyclotron waves in the Io torus during the Galileo encounter: Warm plasma dispersion analysis. <i>Geophysical Research Letters</i> , 1997 , 24, 2143-2146	4.9	63
269	Observations of ion cyclotron waves in the solar wind near 0.3 AU. <i>Journal of Geophysical Research</i> , 2010 , 115, n/a-n/a		62
268	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
267	Ion cyclotron waves in Saturn's E ring: Initial Cassini observations. <i>Geophysical Research Letters</i> , 2006 , 33,	4.9	60
266	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
265	Rippled Quasiperpendicular Shock Observed by the Magnetospheric Multiscale Spacecraft. <i>Physical Review Letters</i> , 2016 , 117, 165101	7.4	59
264	Electron jet of asymmetric reconnection. <i>Geophysical Research Letters</i> , 2016 , 43, 5571-5580	4.9	59
263	Width and brightness of auroral arcs driven by inertial Alfvén waves. <i>Journal of Geophysical Research</i> , 2003 , 108,		58
262	Wave-particle energy exchange directly observed in a kinetic Alfvén-branch wave. <i>Nature Communications</i> , 2017 , 8, 14719	17.4	57
261	Generation and propagation of cyclotron maser emissions in the finite auroral kilometric radiation source cavity. <i>Journal of Geophysical Research</i> , 2002 , 107, SMP 13-1-SMP 13-17		57
260	Coalescence of Macroscopic Flux Ropes at the Subsolar Magnetopause: Magnetospheric Multiscale Observations. <i>Physical Review Letters</i> , 2017 , 119, 055101	7.4	56
259	Electron energization and mixing observed by MMS in the vicinity of an electron diffusion region during magnetopause reconnection. <i>Geophysical Research Letters</i> , 2016 , 43, 6036-6043	4.9	55
258	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
257	Observations of an Electron Diffusion Region in Symmetric Reconnection with Weak Guide Field. <i>Astrophysical Journal</i> , 2019 , 870, 34	4.7	53
256	Impact of space weather on climate and habitability of terrestrial-type exoplanets. <i>International Journal of Astrobiology</i> , 2020 , 19, 136-194	1.4	53
255	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
254	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

253	Magnetospheric Multiscale Satellites Observations of Parallel Electric Fields Associated with Magnetic Reconnection. <i>Physical Review Letters</i> , 2016 , 116, 235102	7.4	50
252	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
251	Temporal and spatial characteristics of Pc1 waves observed by ST5. <i>Journal of Geophysical Research</i> , 2008 , 113, n/a-n/a		49
250	The FAST Satellite Fields Instrument. <i>Space Science Reviews</i> , 2001 , 98, 67-91	7.5	49
249	Kinetic effects in the acceleration of auroral electrons in small scale Alfvén waves: A FAST case study. <i>Geophysical Research Letters</i> , 2003 , 30,	4.9	47
248	Electron dynamics in a subproton-gyroscale magnetic hole. <i>Geophysical Research Letters</i> , 2016 , 43, 4112-4118	4.9	44
247	Electron currents and heating in the ion diffusion region of asymmetric reconnection. <i>Geophysical Research Letters</i> , 2016 , 43, 4691-4700	4.9	43
246	Polar study of ionospheric ion outflow versus energy input. <i>Journal of Geophysical Research</i> , 2005 , 110,		43
245	Electron phase-space holes and the VLF saucer source region. <i>Geophysical Research Letters</i> , 2001 , 28, 3805-3808	4.9	42
244	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
243	MMS observations of ion-scale magnetic island in the magnetosheath turbulent plasma. <i>Geophysical Research Letters</i> , 2016 , 43, 7850-7858	4.9	41
242	Electron Heating at Kinetic Scales in Magnetosheath Turbulence. <i>Astrophysical Journal</i> , 2017 , 836, 247	4.7	40
241	Magnetic Reconnection, Turbulence, and Particle Acceleration: Observations in the Earth's Magnetotail. <i>Geophysical Research Letters</i> , 2018 , 45, 3338-3347	4.9	40
240	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, 9941-9952	2.6	40
239	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
238	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
237	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
236	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

235	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
234	FAST observations of preferentially accelerated He ⁺ in association with auroral electromagnetic ion cyclotron waves. <i>Geophysical Research Letters</i> , 1998 , 25, 2049-2052	4.9	38
233	Large parallel electric fields, currents, and density cavities in dispersive Alfvén waves above the aurora. <i>Journal of Geophysical Research</i> , 2007 , 112, n/a-n/a		37
232	Magnetotail reconnection onset caused by electron kinetics with a strong external driver. <i>Nature Communications</i> , 2020 , 11, 5049	17.4	37
231	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
230	MMS Multipoint electric field observations of small-scale magnetic holes. <i>Geophysical Research Letters</i> , 2016 , 43, 5953-5959	4.9	36
229	A global multispecies single-fluid MHD study of the plasma interaction around Venus. <i>Journal of Geophysical Research: Space Physics</i> , 2013 , 118, 321-330	2.6	36
228	Species dependent energies in upward directed ion beams over auroral arcs as observed with FAST TEAMS. <i>Geophysical Research Letters</i> , 1998 , 25, 2029-2032	4.9	36
227	Magnetospheric ion influence on magnetic reconnection at the duskside magnetopause. <i>Geophysical Research Letters</i> , 2016 , 43, 1435-1442	4.9	36
226	Kinetic evidence of magnetic reconnection due to Kelvin-Helmholtz waves. <i>Geophysical Research Letters</i> , 2016 , 43, 5635-5643	4.9	36
225	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
224	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
223	S bursts and the Jupiter ionospheric Alfvén resonator. <i>Journal of Geophysical Research</i> , 2006 , 111,		35
222	Finite gyroradius effects in the electron outflow of asymmetric magnetic reconnection. <i>Geophysical Research Letters</i> , 2016 , 43, 6724-6733	4.9	34
221	Space Technology 5 multi-point measurements of near-Earth magnetic fields: Initial results. <i>Geophysical Research Letters</i> , 2008 , 35,	4.9	34
220	Global observations of magnetospheric high- poloidal waves during the 22 June 2015 magnetic storm. <i>Geophysical Research Letters</i> , 2017 , 44, 3456-3464	4.9	33
219	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
218	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

217	Solar Wind Turbulence Studies Using MMS Fast Plasma Investigation Data. <i>Astrophysical Journal</i> , 2018 , 866, 81	4.7	33
216	A comparative study of dipolarization fronts at MMS and Cluster. <i>Geophysical Research Letters</i> , 2016 , 43, 6012-6019	4.9	32
215	Incompressible Energy Transfer in the Earth's Magnetosheath: Magnetospheric Multiscale Observations. <i>Astrophysical Journal</i> , 2018 , 866, 106	4.7	32
214	Autogenous and efficient acceleration of energetic ions upstream of Earth's bow shock. <i>Nature</i> , 2018 , 561, 206-210	50.4	32
213	Observations of Magnetic Reconnection in the Transition Region of Quasi-Parallel Shocks. <i>Geophysical Research Letters</i> , 2019 , 46, 1177-1184	4.9	31
212	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
211	Localized Oscillatory Energy Conversion in Magnetopause Reconnection. <i>Geophysical Research Letters</i> , 2018 , 45, 1237-1245	4.9	31
210	Magnetospheric Multiscale mission observations of the outer electron diffusion region. <i>Geophysical Research Letters</i> , 2017 , 44, 2049-2059	4.9	30
209	Electron Bulk Acceleration and Thermalization at Earth's Quasiperpendicular Bow Shock. <i>Physical Review Letters</i> , 2018 , 120, 225101	7.4	29
208	Motion of the MMS spacecraft relative to the magnetic reconnection structure observed on 16 October 2015 at 1307 UT. <i>Geophysical Research Letters</i> , 2016 , 43, 5589-5596	4.9	28
207	Magnetospheric ion influence at the dayside magnetopause. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 8617-8631	2.6	28
206	Magnetic Field Instruments for the Fast Auroral Snapshot Explorer. <i>Space Science Reviews</i> , 2001 , 98, 151-168	7.5	28
205	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
204	The equivalence of Joule dissipation and frictional heating in the collisional ionosphere. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		27
203	The spatial extent of radial magnetic pulsation events observed in the dayside near synchronous orbit. <i>Journal of Geophysical Research</i> , 1992 , 97, 13741		27
202	Magnetopause erosion during the 17 March 2015 magnetic storm: Combined field-aligned currents, auroral oval, and magnetopause observations. <i>Geophysical Research Letters</i> , 2016 , 43, 2396-2404	4.9	27
201	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
200	In Situ Observation of Hall Magnetohydrodynamic Cascade in Space Plasma. <i>Physical Review Letters</i> , 2020 , 124, 225101	7.4	26

199	Solitary Waves Across Supercritical Quasi-Perpendicular Shocks. <i>Geophysical Research Letters</i> , 2018 , 45, 5809	4.9	26
198	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
197	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
196	Force balance at the magnetopause determined with MMS: Application to flux transfer events. <i>Geophysical Research Letters</i> , 2016 , 43, 11,941-11,947	4.9	25
195	Behavior of current sheets at directional magnetic discontinuities in the solar wind at 0.72 AU. <i>Geophysical Research Letters</i> , 2008 , 35,	4.9	25
194	Electron plasma oscillations in the Venus foreshock. <i>Geophysical Research Letters</i> , 1990 , 17, 1805-1808	4.9	25
193	Magnetospheric response and reconfiguration times following IMF By reversals. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 417-431	2.6	24
192	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
191	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
190	VLF bursts in the night ionosphere of Venus: Estimates of the Poynting flux. <i>Geophysical Research Letters</i> , 1989 , 16, 579-582	4.9	24
189	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
188	Electron Phase-Space Holes in Three Dimensions: Multispacecraft Observations by Magnetospheric Multiscale. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 9963-9978	2.6	24
187	Simultaneous Multispacecraft Probing of Electron Phase Space Holes. <i>Geophysical Research Letters</i> , 2018 , 45, 11,513-11,519	4.9	24
186	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> , 2017 , 122, 11,481-11,504	2.6	23
185	Reconnection With Magnetic Flux Pileup at the Interface of Converging Jets at the Magnetopause. <i>Geophysical Research Letters</i> , 2019 , 46, 1937-1946	4.9	23
184	Guide Field Reconnection: Exhaust Structure and Heating. <i>Geophysical Research Letters</i> , 2018 , 45, 4569-4577	4.9	23
183	High-resolution Statistics of Solar Wind Turbulence at Kinetic Scales Using the Magnetospheric Multiscale Mission. <i>Astrophysical Journal Letters</i> , 2017 , 844, L9	7.9	23
182	Empirical model of Poynting flux derived from FAST data and a cusp signature. <i>Journal of Geophysical Research: Space Physics</i> , 2014 , 119, 411-430	2.6	23

181	FAST/Polar conjunction study of field-aligned auroral acceleration and corresponding magnetotail drivers. <i>Journal of Geophysical Research</i> , 2003 , 108,		23
180	Transient, small-scale field-aligned currents in the plasma sheet boundary layer during storm time substorms. <i>Geophysical Research Letters</i> , 2016 , 43, 4841-4849	4.9	23
179	Decay of mesoscale flux transfer events during quasi-continuous spatially extended reconnection at the magnetopause. <i>Geophysical Research Letters</i> , 2016 , 43, 4755-4762	4.9	23
178	Statistics of Kinetic Dissipation in the Earth's Magnetosheath: MMS Observations. <i>Physical Review Letters</i> , 2020 , 124, 255101	7.4	22
177	Electrostatic Turbulence and Debye-scale Structures in Collisionless Shocks. <i>Astrophysical Journal Letters</i> , 2020 , 889, L9	7.9	22
176	FAST observations of discrete electrostatic waves in association with down-going ion beams in the auroral zone. <i>Journal of Geophysical Research</i> , 2002 , 107, SMP 12-1		22
175	Observations of energetic particle escape at the magnetopause: Early results from the MMS Energetic Ion Spectrometer (EIS). <i>Geophysical Research Letters</i> , 2016 , 43, 5960-5968	4.9	22
174	High-Frequency Wave Generation in Magnetotail Reconnection: Linear Dispersion Analysis. <i>Geophysical Research Letters</i> , 2019 , 46, 4089-4097	4.9	21
173	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> , 2016 , 43, 6051-6059	4.9	21
172	New Insights into the Nature of Turbulence in the Earth's Magnetosheath Using Magnetospheric MultiScale Mission Data. <i>Astrophysical Journal</i> , 2018 , 859, 127	4.7	21
171	In situ observations of the preexisting auroral arc by THEMIS all sky imagers and the FAST spacecraft. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		21
170	Photoelectron flows in the polar wind during geomagnetically quiet periods. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		21
169	Space Technology 5 observations of the imbalance of regions 1 and 2 field-aligned currents and its implication to the cross-polar cap Pedersen currents. <i>Journal of Geophysical Research</i> , 2010 , 115,		21
168	The substructure of a flux transfer event observed by the MMS spacecraft. <i>Geophysical Research Letters</i> , 2016 , 43, 9434-9443	4.9	21
167	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> , 2017 , 122, 5487-5501	2.6	20
166	Reconstruction of the electron diffusion region observed by the Magnetospheric Multiscale spacecraft: First results. <i>Geophysical Research Letters</i> , 2017 , 44, 4566-4574	4.9	20
165	The Hall Electric Field in Earth's Magnetotail Thin Current Sheet. <i>Journal of Geophysical Research: Space Physics</i> , 2019 , 124, 1052-1062	2.6	20
164	Electron Diffusion Regions in Magnetotail Reconnection Under Varying Guide Fields. <i>Geophysical Research Letters</i> , 2019 , 46, 6230-6238	4.9	20

163	Energy partitioning constraints at kinetic scales in low- turbulence. <i>Physics of Plasmas</i> , 2018 , 25,	2.1	20
162	Determining L-M-N Current Sheet Coordinates at the Magnetopause From Magnetospheric Multiscale Data. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 2274	2.6	20
161	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> , 2016 , 43, 6070-6077	4.9	20
160	Fast Observations of Upward Accelerated Electron Beams and the Downward Field-Aligned Current Region. <i>Geophysical Monograph Series</i> , 2000 , 173-180	1.1	20
159	Generation of Electron Whistler Waves at the Mirror Mode Magnetic Holes: MMS Observations and PIC Simulation. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 6383-6393	2.6	19
158	FAST/TEAMS observations of charge exchange signatures in ions mirroring at low altitudes. <i>Geophysical Research Letters</i> , 1998 , 25, 2085-2088	4.9	19
157	Direct measurements of two-way wave-particle energy transfer in a collisionless space plasma. <i>Science</i> , 2018 , 361, 1000-1003	33.3	19
156	Optimized merging of search coil and fluxgate data for MMS. <i>Geoscientific Instrumentation, Methods and Data Systems</i> , 2016 , 5, 521-530	1.5	18
155	Polynomial Reconstruction of the Reconnection Magnetic Field Observed by Multiple Spacecraft. <i>Journal of Geophysical Research: Space Physics</i> , 2020 , 125, e2019JA027481	2.6	18
154	The Properties of Lion Roars and Electron Dynamics in Mirror Mode Waves Observed by the Magnetospheric MultiScale Mission. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 93-103	2.6	18
153	Magnetic field gradients from the ST-5 constellation: Improving magnetic and thermal models of the lithosphere. <i>Geophysical Research Letters</i> , 2007 , 34,	4.9	18
152	Characteristics of Field-Aligned Currents Near the Auroral Acceleration Region: Fast Observations. <i>Geophysical Monograph Series</i> , 2000 , 181-189	1.1	18
151	Observations of large-amplitude, parallel, electrostatic waves associated with the Kelvin-Helmholtz instability by the magnetospheric multiscale mission. <i>Geophysical Research Letters</i> , 2016 , 43, 8859-8866	4.9	18
150	Ion Kinetics in a Hot Flow Anomaly: MMS Observations. <i>Geophysical Research Letters</i> , 2018 , 45, 11,520	4.9	18
149	omonosov Satellite Space Observatory to Study Extreme Phenomena in Space. <i>Space Science Reviews</i> , 2017 , 212, 1705-1738	7.5	17
148	Mass Loading the Earth's Dayside Magnetopause Boundary Layer and Its Effect on Magnetic Reconnection. <i>Geophysical Research Letters</i> , 2019 , 46, 6204-6213	4.9	17
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- 1 A Multi-Instrument Study of a Dipolarization Event in the Inner Magnetosphere. *Journal of Geophysical Research: Space Physics*, **2021**, 126, e2021JA029294 2.6