L R Lyons

List of Publications by Year in descending order

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187 papers	7,017 citations	43973 48 h-index	85405 71 g-index
193 all docs	193 docs citations	193 times ranked	2101 citing authors

#	Article	IF	Citations
1	Identifying the Driver of Pulsating Aurora. Science, 2010, 330, 81-84.	6.0	249
2	Association between Geotail plasma flows and auroral poleward boundary intensifications observed by CANOPUS photometers. Journal of Geophysical Research, 1999, 104, 4485-4500.	3.3	247
3	Substorm triggering by new plasma intrusion: THEMIS allâ€sky imager observations. Journal of Geophysical Research, 2010, 115, .	3.3	221
4	Proton aurora and substorm intensifications. Geophysical Research Letters, 1992, 19, 2167-2170.	1.5	191
5	Coordinated observations demonstrating external substorm triggering. Journal of Geophysical Research, 1997, 102, 27039-27051.	3.3	156
6	A new theory for magnetospheric substorms. Journal of Geophysical Research, 1995, 100, 19069.	3.3	152
7	Discrete aurora as the direct result of an inferred highâ€altitude generating potential distribution. Journal of Geophysical Research, 1981, 86, 1-8.	3.3	146
8	Substorms: Fundamental observational features, distinction from other disturbances, and external triggering. Journal of Geophysical Research, 1996, 101, 13011-13025.	3.3	142
9	Quiet-time intensifications along the poleward auroral boundary near midnight. Journal of Geophysical Research, 1994, 99, 287.	3.3	124
10	Global simulation of EMIC wave excitation during the 21 April 2001 storm from coupled RCMâ€RAMâ€HOTRAY modeling. Journal of Geophysical Research, 2010, 115, .	3.3	120
11	Spatial distributions of the ion to electron temperature ratio in the magnetosheath and plasma sheet. Journal of Geophysical Research, 2012, 117, .	3.3	103
12	Multievent study of the correlation between pulsating aurora and whistler mode chorus emissions. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	85
13	Solar wind-magnetosphere coupling leading to relativistic electron energization during high-speed streams. Journal of Geophysical Research, 2005, 110, .	3.3	84
14	Numerical calculations of relativistic electron drift loss effect. Journal of Geophysical Research, 2008, 113, .	3.3	84
15	Two-dimensional structure of auroral poleward boundary intensifications. Journal of Geophysical Research, 2002, 107, SIA 6-1.	3.3	78
16	Structures of dayside whistlerâ€mode waves deduced from conjugate diffuse aurora. Journal of Geophysical Research: Space Physics, 2013, 118, 664-673.	0.8	76
17	Equatorial distributions of the plasma sheet ions, their electric and magnetic drifts, and magnetic fields under different interplanetary magnetic fieldBzconditions. Journal of Geophysical Research, 2006, 111, .	3.3	75
18	Mechanism of substorm current wedge formation: THEMIS observations. Geophysical Research Letters, 2012, 39, .	1.5	75

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19	The neutral wind â€œflywheelâ€•as a source of quietâ€•time, polarâ€•cap currents. Geophysical Research Letters, 1985, 12, 101-104.	1.5	72
20	Locating the polar cap boundary from observations of 6300 Ã… auroral emission. Journal of Geophysical Research, 1995, 100, 7855.	3.3	72
21	Global auroral responses to abrupt solar wind changes: Dynamic pressure, substorm, and null events. Journal of Geophysical Research, 2005, 110, .	3.3	68
22	Substorm triggering by new plasma intrusion: Incoherentâ€•scatter radar observations. Journal of Geophysical Research, 2010, 115, .	3.3	67
23	The Effect of the January 10, 1997, pressure pulse on the magnetosphere-ionosphere current system. Geophysical Monograph Series, 2000, , 217-226.	0.1	66
24	Enhanced solar wind geoeffectiveness after a sudden increase in dynamic pressure during southward IMF orientation. Journal of Geophysical Research, 2005, 110, .	3.3	66
25	Coupling of dipolarization front flow bursts to substorm expansion phase phenomena within the magnetosphere and ionosphere. Journal of Geophysical Research, 2012, 117, .	3.3	66
26	Accuracy of using 6300 Ã… auroral emission to identify the magnetic separatrix on the nightside of Earth. Journal of Geophysical Research, 1997, 102, 9697-9703.	3.3	65
27	Relation of substorm breakup arc to other growth-phase auroral arcs. Journal of Geophysical Research, 2002, 107, SMP 26-1.	3.3	65
28	Sources, transport, and distributions of plasma sheet ions and electrons and dependences on interplanetary parameters under northward interplanetary magnetic field. Journal of Geophysical Research, 2007, 112, .	3.3	65
29	Dayâ€•night coupling by a localized flow channel visualized by polar cap patch propagation. Geophysical Research Letters, 2014, 41, 3701-3709.	1.5	65
30	The perturbed neutral circulation in the vicinity of a symmetric stable auroral arc. Journal of Geophysical Research, 1985, 90, 12235-12248.	3.3	64
31	On the coupling between the Harang reversal evolution and substorm dynamics: A synthesis of SuperDARN, DMSP, and IMAGE observations. Journal of Geophysical Research, 2009, 114, .	3.3	64
32	Relations between multiple auroral streamers, pre-onset thin arc formation, and substorm auroral onset. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	64
33	Geosynchronous magnetic field response to solar wind dynamic pressure pulse. Journal of Geophysical Research, 2004, 109, .	3.3	62
34	Auroral poleward boundary intensifications (PBIs): Their two-dimensional structure and associated dynamics in the plasma sheet. Journal of Geophysical Research, 2006, 111, .	3.3	62
35	Magnetospheric reconnection driven by solar wind pressure fronts. Annales Geophysicae, 2004, 22, 1367-1378.	0.6	61
36	Possible connection of polar cap flows to pre- and post-substorm onset PBIs and streamers. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	61

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37	Comparison of geosynchronous energetic particle flux responses to solar wind dynamic pressure enhancements and substorms. Journal of Geophysical Research, 2005, 110, .	3.3	59
38	Coordinated SuperDARN THEMIS ASI observations of mesoscale flow bursts associated with auroral streamers. Journal of Geophysical Research: Space Physics, 2014, 119, 142-150.	0.8	58
39	Observational properties of dayside throat aurora and implications on the possible generation mechanisms. Journal of Geophysical Research: Space Physics, 2017, 122, 1853-1870.	0.8	57
40	Sawtooth oscillations directly driven by solar wind dynamic pressure enhancements. Journal of Geophysical Research, 2004, 109, .	3.3	56
41	Sondrestrom radar measurements of the reconnection electric field. Journal of Geophysical Research, 1991, 96, 13907-13912.	3.3	55
42	Azimuthal plasma pressure gradient in quiet time plasma sheet. Geophysical Research Letters, 2009, 36, .	1.5	55
43	Formation of the Harang reversal and its dependence on plasma sheet conditions: Rice convection model simulations. Journal of Geophysical Research, 2009, 114, .	3.3	54
44	Statistical properties of substorm auroral onset beads/rays. Journal of Geophysical Research: Space Physics, 2016, 121, 8661-8676.	0.8	54
45	Spatial distributions of ions and electrons from the plasma sheet to the inner magnetosphere: Comparisons between THEMIS-Geotail statistical results and the Rice convection model. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	53
46	Plasma sheet P^{5/3} and n and associated plasma and energy transport for different convection strengths and AE levels. Journal of Geophysical Research, 2009, 114, .	3.3	52
47	Auroral poleward boundary intensifications and tail bursty flows: A manifestation of a large-scale ULF oscillation?. Journal of Geophysical Research, 2002, 107, SMP 9-1.	3.3	51
48	Preonset time sequence of auroral substorms: Coordinated observations by allâ€sky imagers, satellites, and radars. Journal of Geophysical Research, 2010, 115, .	3.3	51
49	Substorm onset by new plasma intrusion: THEMIS spacecraft observations. Journal of Geophysical Research, 2010, 115, .	3.3	50
50	Nightside ionospheric electrodynamics associated with substorms: PFISR and THEMIS ASI observations. Journal of Geophysical Research, 2009, 114, .	3.3	49
51	Auroral disturbances during the January 10, 1997 magnetic storm. Geophysical Research Letters, 2000, 27, 3237-3240.	1.5	48
52	Throat aurora: The ionospheric signature of magnetosheath particles penetrating into the magnetosphere. Geophysical Research Letters, 2016, 43, 1819-1827.	1.5	47
53	Measurement of the magnetotail reconnection rate. Journal of Geophysical Research, 1996, 101, 15265-15276.	3.3	45
54	Dayside Magnetospheric and Ionospheric Responses to a Foreshock Transient on 25 June 2008: 2. 2â€Ð Evolution Based on Dayside Auroral Imaging. Journal of Geophysical Research: Space Physics, 2018, 123, 6347-6359.	0.8	44

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55	Modeling the quiet time inner plasma sheet protons. Journal of Geophysical Research, 2001, 106, 6161-6178.	3.3	43
56	A Statistical Study of EMIC Waves Associated With and Without Energetic Particle Injection From the Magnetotail. Journal of Geophysical Research: Space Physics, 2019, 124, 433-450.	0.8	43
57	Identification of Auroral Zone Activity Driving Largeâ€Scale Traveling Ionospheric Disturbances. Journal of Geophysical Research: Space Physics, 2019, 124, 700-714.	0.8	42
58	Generation of auroral omega bands by shear instability of the neutral winds. Journal of Geophysical Research, 1985, 90, 12321-12329.	3.3	41
59	Observations of dayside convection reduction leading to substorm onset. Journal of Geophysical Research, 2003, 108, .	3.3	41
60	Dayside reconnection enhancement resulting from a solar wind dynamic pressure increase. Journal of Geophysical Research, 2007, 112, n/a-n/a.	3.3	41
61	Impacts of Magnetosheath Highâ€Speed Jets on the Magnetosphere and Ionosphere Measured by Optical Imaging and Satellite Observations. Journal of Geophysical Research: Space Physics, 2018, 123, 4879-4894.	0.8	41
62	Formation of substorm Pi2: A coherent response to auroral streamers and currents. Journal of Geophysical Research, 2012, 117, .	3.3	40
63	Substorm onset and expansion phase intensification precursors seen in polar cap patches and arcs. Journal of Geophysical Research: Space Physics, 2013, 118, 2034-2042.	0.8	40
64	Utilizing the Heliophysics/Geospace System Observatory to Understand Particle Injections: Their Scale Sizes and Propagation Directions. Journal of Geophysical Research: Space Physics, 2019, 124, 5584-5609.	0.8	37
65	Statistical relationships between enhanced polar cap flows and PBIs. Journal of Geophysical Research: Space Physics, 2014, 119, 151-162.	0.8	36
66	EMIC Wave Properties Associated With and Without Injections in The Inner Magnetosphere. Journal of Geophysical Research: Space Physics, 2019, 124, 2029-2045.	0.8	36
67	Midnight radial profiles of the quiet and growth-phase plasma sheet: The Geotail observations. Journal of Geophysical Research, 2004, 109, .	3.3	35
68	Nighttime Magnetic Perturbation Events Observed in Arctic Canada: 2. Multipleâ€Instrument Observations. Journal of Geophysical Research: Space Physics, 2019, 124, 7459-7476.	0.8	35
69	The Characteristics of EMIC Waves in the Magnetosphere Based on the Van Allen Probes and Arase Observations. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA029001.	0.8	35
70	Azimuthal flow bursts in the inner plasma sheet and possible connection with SAPS and plasma sheet earthward flow bursts. Journal of Geophysical Research: Space Physics, 2015, 120, 5009-5021.	0.8	34
71	Oxygen Ion Dynamics in the Earth's Ring Current: Van Allen Probes Observations. Journal of Geophysical Research: Space Physics, 2019, 124, 7786-7798.	0.8	34
72	Association between quiet-time Pi2 pulsations, poleward boundary intensifications, and plasma sheet particle fluxes. Geophysical Research Letters, 2002, 29, 7-1-7-4.	1.5	33

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73	Substorm onset by plasma sheet divergence. Journal of Geophysical Research, 2003, 108, .	3.3	33
74	Modeling the transition of the inner plasma sheet from weak to enhanced convection. Journal of Geophysical Research, 2004, 109, .	3.3	33
75	Localized polar cap flow enhancement tracing using airglow patches: Statistical properties, IMF dependence, and contribution to polar cap convection. Journal of Geophysical Research: Space Physics, 2015, 120, 4064-4078.	0.8	33
76	Near-Earth plasma sheet azimuthal pressure gradient and associated auroral development soon before substorm onset. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	32
77	Distinction between auroral substorm onset and traditional ground magnetic onset signatures. Journal of Geophysical Research: Space Physics, 2013, 118, 4080-4092.	0.8	32
78	GPS TEC observations of dynamics of the mid-latitude trough during substorms. Geophysical Research Letters, 2011, 38, n/a-n/a.	1.5	30
79	The neutral circulation in the vicinity of a stable auroral arc. Journal of Geophysical Research, 1992, 97, 19489-19499.	3.3	29
80	Substorm inner plasma sheet particle reduction. Journal of Geophysical Research, 2003, 108, .	3.3	29
81	Repetitive substorms caused by AlfvÃ©nic waves of the interplanetary magnetic field during high-speed solar wind streams. Journal of Geophysical Research, 2006, 111, .	3.3	29
82	Empirical modeling of 3â€Ð forceâ€balanced plasma and magnetic field structures during substorm growth phase. Journal of Geophysical Research: Space Physics, 2015, 120, 6496-6513.	0.8	29
83	Characteristics of auroral electron precipitation on the morningside. Journal of Geophysical Research, 1986, 91, 11225-11234.	3.3	28
84	Statistical study of effect of solar wind dynamic pressure enhancements on dawn-to-dusk ring current asymmetry. Journal of Geophysical Research, 2006, 111, .	3.3	28
85	Evidence that solar wind fluctuations substantially affect global convection and substorm occurrence. Journal of Geophysical Research, 2009, 114, .	3.3	27
86	Revisit of relationship between geosynchronous relativistic electron enhancements and magnetic storms. Geophysical Research Letters, 2015, 42, 6155-6161.	1.5	27
87	The 17 March 2013 storm: Synergy of observations related to electric field modes and their ionospheric and magnetospheric Effects. Journal of Geophysical Research: Space Physics, 2016, 121, 10,880.	0.8	27
88	Influence of Auroral Streamers on Rapid Evolution of Ionospheric SAPS Flows. Journal of Geophysical Research: Space Physics, 2017, 122, 12,406.	0.8	27
89	Predictions of substorms following northward turnings of the interplanetary magnetic field. Journal of Geophysical Research, 2000, 105, 375-384.	3.3	26
90	Statistical significance of association between whistlerâ€mode chorus enhancements and enhanced convection periods during highâ€speed streams. Journal of Geophysical Research, 2007, 112, .	3.3	26

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91	Effect of self-consistent magnetic field on plasma sheet penetration to the inner magnetosphere: Rice convection model simulations combined with modified Dungey force-balanced magnetic field solver. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	25
92	Evolution of nightside subauroral proton aurora caused by transient plasma sheet flows. Journal of Geophysical Research: Space Physics, 2014, 119, 5295-5304.	0.8	25
93	Coordinated ionospheric observations indicating coupling between preonset flow bursts and waves that lead to substorm onset. Journal of Geophysical Research: Space Physics, 2014, 119, 3333-3344.	0.8	25
94	Evidence that solar wind fluctuations substantially affect the strength of dayside ionospheric convection. Journal of Geophysical Research, 2009, 114, .	3.3	24
95	Plasma sheet pressure evolution related to substorms. Journal of Geophysical Research, 2010, 115, .	3.3	24
96	Identification of substorm onset location and preonset sequence using Reimei, THEMIS GBO, PFISR, and Geotail. Journal of Geophysical Research, 2010, 115, .	3.3	24
97	Twoâ€dimensional ionospheric flow pattern associated with auroral streamers. Journal of Geophysical Research, 2012, 117, .	3.3	24
98	Modeling the inner plasma sheet protons and magnetic field under enhanced convection. Journal of Geophysical Research, 2003, 108, .	3.3	23
99	Superposed epoch analysis of magnetotail flux transport during substorms observed by THEMIS. Journal of Geophysical Research, 2011, 116, .	3.3	23
100	Flow Shears at the Poleward Boundary of Omega Bands Observed During Conjunctions of Swarm and THEMIS ASI. Geophysical Research Letters, 2018, 45, 1218-1227.	1.5	23
101	Properties of lowâ€latitude mantle plasma in the Earth's magnetotail: ARTEMIS observations and global MHD predictions. Journal of Geophysical Research: Space Physics, 2014, 119, 7264-7280.	0.8	22
102	Current sheet scattering and ion isotropic boundary under 3â€D empirical forceâ€balanced magnetic field. Journal of Geophysical Research: Space Physics, 2014, 119, 8202-8211.	0.8	22
103	Effect of an MLT dependent electron loss rate on the magnetosphereâ€ionosphere coupling. Journal of Geophysical Research, 2012, 117, .	3.3	21
104	Electrodynamics of the highâ€latitude trough: Its relationship with convection flows and fieldâ€aligned currents. Journal of Geophysical Research: Space Physics, 2013, 118, 2565-2572.	0.8	21
105	Localized reconnection in the magnetotail driven by lobe flow channels: Global MHD simulation. Journal of Geophysical Research: Space Physics, 2016, 121, 1327-1338.	0.8	21
106	SAPS intensification during substorm recovery: A multi-instrument case study. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	20
107	Statistical Properties of Mesoscale Plasma Flows in the Nightside Highâ€Latitude Ionosphere. Journal of Geophysical Research: Space Physics, 2018, 123, 6798-6820.	0.8	20
108	The 2â€D Structure of Foreshockâ€Driven Field Line Resonances Observed by THEMIS Satellite and Groundâ€Based Imager Conjunctions. Journal of Geophysical Research: Space Physics, 2019, 124, 6792-6811.	0.8	20

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109	Comparison of intense nightside shock-induced precipitation and substorm activity. Journal of Geophysical Research, 2005, 110, .	3.3	19
110	Near Earth Plasma Sheet Penetration and Geomagnetic Disturbances. Geophysical Monograph Series, 0, , 241-257.	0.1	19
111	Connections between plasma sheet transport, Region 2 currents, and entropy changes associated with convection, steady magnetospheric convection periods, and substorms. Journal of Geophysical Research, 2009, 114, .	3.3	18
112	Ionospheric flow structures associated with auroral beading at substorm auroral onset. Journal of Geophysical Research: Space Physics, 2014, 119, 9150-9159.	0.8	18
113	Spatial Distribution of Plasma Sheet Entropy Reduction Caused by a Plasma Bubble: Rice Convection Model Simulations. Journal of Geophysical Research: Space Physics, 2018, 123, 3380-3397.	0.8	18
114	Dawnside Auroral Polarization Streams. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027742.	0.8	18
115	Energetic neutral atom response to solar wind dynamic pressure enhancements. Journal of Geophysical Research, 2007, 112, .	3.3	17
116	On the formation of preâ€onset azimuthal pressure gradient in the nearâ€Earth plasma sheet. Journal of Geophysical Research, 2012, 117, .	3.3	17
117	Westward traveling surges: Sliding along boundary arcs and distinction from onset arc brightening. Journal of Geophysical Research: Space Physics, 2013, 118, 7643-7653.	0.8	17
118	Interplanetary Parameters Leading to Relativistic Electron Enhancement and Persistent Depletion Events at Geosynchronous Orbit and Potential for Prediction. Journal of Geophysical Research: Space Physics, 2018, 123, 1134-1145.	0.8	17
119	Subauroral Neutral Wind Driving and Its Feedback to SAPS During the 17 March 2013 Geomagnetic Storm. Journal of Geophysical Research: Space Physics, 2019, 124, 2323-2337.	0.8	17
120	Initial simulation results of storm-time ring current in a self-consistent magnetic field model. Journal of Geophysical Research, 2006, 111, .	3.3	16
121	Enhanced transport across entire length of plasma sheet boundary field lines leading to substorm onset. Journal of Geophysical Research, 2010, 115, .	3.3	16
122	Coordinated THEMIS spacecraft and allâ€sky imager observations of interplanetary shock effects on plasma sheet flow bursts, poleward boundary intensifications, and streamers. Journal of Geophysical Research: Space Physics, 2013, 118, 3346-3356.	0.8	16
123	Tail reconnection region versus auroral activity inferred from conjugate ARTEMIS plasma sheet flow and auroral observations. Journal of Geophysical Research: Space Physics, 2013, 118, 5758-5766.	0.8	16
124	Empirical modeling of plasma sheet pressure and threeâ€dimensional forceâ€balanced magnetospheric magnetic field structure: 2. Modeling. Journal of Geophysical Research: Space Physics, 2013, 118, 6166-6175.	0.8	16
125	Unsolved problems: Mesoscale polar cap flow channels' structure, propagation, and effects on space weather disturbances. Journal of Geophysical Research: Space Physics, 2016, 121, 3347-3352.	0.8	16
126	Coordinated observations of two types of diffuse auroras near magnetic local noon by Magnetospheric Multiscale mission and ground allâ€sky camera. Geophysical Research Letters, 2017, 44, 8130-8139.	1.5	16

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127	Feedback between neutral winds and auroral arc electrodynamics. Journal of Geophysical Research, 1986, 91, 13506-13512.	3.3	15
128	Ionospheric convection signatures of tail fast flows during substorms and Poleward Boundary Intensifications (PBI). Geophysical Research Letters, 2011, 38, n/a-n/a.	1.5	15
129	Investigation of triggering of poleward moving auroral forms using satelliteâ€imager coordinated observations. Journal of Geophysical Research: Space Physics, 2016, 121, 10,929.	0.8	15
130	Stormtime substorm onsets: occurrence and flow channel triggering. Earth, Planets and Space, 2018, 70, 81.	0.9	15
131	Mesoscale F Region Neutral Winds Associated With Quasiâ€steady and Transient Nightside Auroral Forms. Journal of Geophysical Research: Space Physics, 2018, 123, 7968-7984.	0.8	15
132	Relative Contributions of Ion Convection and Particle Precipitation to Exciting Largeâ€Scale Traveling Atmospheric and Ionospheric Disturbances. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027342.	0.8	15
133	Reasons why some solar wind changes do not trigger substorms. Journal of Geophysical Research, 2007, 112, n/a-n/a.	3.3	14
134	Dynamic pressure enhancements as a cause of largeâ€scale stormtime substorms. Journal of Geophysical Research, 2008, 113, .	3.3	14
135	Relation of substorm preâ€onset arc to largeâ€scale fieldâ€aligned current distribution. Geophysical Research Letters, 2012, 39, .	1.5	14
136	Mutual Evolution of Aurora and Ionospheric Electrodynamic Features Near the Harang Reversal During Substorms. Geophysical Monograph Series, 0, , 159-170.	0.1	14
137	Polar cap precursor of nightside auroral oval intensifications using polar cap arcs. Journal of Geophysical Research: Space Physics, 2015, 120, 10,698-10,711.	0.8	14
138	Localized field-aligned currents in the polar cap associated with airglow patches. Journal of Geophysical Research: Space Physics, 2016, 121, 10,172-10,189.	0.8	14
139	Extreme Magnetosphereâ€Ionosphereâ€Thermosphere Responses to the 5 April 2010 Supersubstorm. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027654.	0.8	14
140	Relative contributions of large-scale and wedgelet currents in the substorm current wedge. Earth, Planets and Space, 2020, 72, 106.	0.9	14
141	Identifying the magnetotail source region leading to preonset poleward boundary intensifications. Journal of Geophysical Research: Space Physics, 2013, 118, 4335-4340.	0.8	13
142	Analysis of close conjunctions between dayside polar cap airglow patches and flow channels by all-sky imager and DMSP. Earth, Planets and Space, 2016, 68, .	0.9	12
143	Decay of Ultrarelativistic Remnant Belt Electrons Through Scattering by Plasmaspheric Hiss. Journal of Geophysical Research: Space Physics, 2019, 124, 5222-5233.	0.8	12
144	Impact of Flow Bursts in the Auroral Zone on the Ionosphere and Thermosphere. Journal of Geophysical Research: Space Physics, 2019, 124, 10459-10467.	0.8	12

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145	SECS Analysis of Nighttime Magnetic Perturbation Events Observed in Arctic Canada. Journal of Geophysical Research: Space Physics, 2021, 126, e2021JA029839.	0.8	12
146	Reply to comment by Harald U. Frey on â€œSubstorm triggering by new plasma intrusion: THEMIS allâ€sky imager observationsâ€. Journal of Geophysical Research, 2010, 115, .	3.3	11
147	Auroral wave structures and ballooning instabilities in the plasma sheet. Journal of Geophysical Research: Space Physics, 2013, 118, 6319-6326.	0.8	11
148	Characteristics, Occurrence, and Decay Rates of Remnant Belts Associated With Threeâ€Belt Events in the Earth's Radiation Belts. Geophysical Research Letters, 2018, 45, 12,099.	1.5	11
149	Ionospheric Modulation by Storm Time Pc5 ULF Pulsations and the Structure Detected by PFISRâ€THEMIS Conjunction. Geophysical Research Letters, 2020, 47, e2020GL089060.	1.5	11
150	Are repetitive particle injections during highâ€speed solar wind streams classic substorms?. Journal of Geophysical Research, 2008, 113, .	3.3	10
151	Auroral Disturbances as a Manifestation of Interplay Between Large-Scale and Mesoscale Structure of Magnetosphere-Ionosphere Electrodynamical Coupling. Geophysical Monograph Series, 0, , 193-204.	0.1	10
152	A 2-D empirical plasma sheet pressure model for substorm growth phase using the Support Vector Regression Machine. Journal of Geophysical Research: Space Physics, 2015, 120, 1957-1973.	0.8	10
153	Rapid Injections of MeV Electrons and Extremely Fast Stepâ€Like Outer Radiation Belt Enhancements. Geophysical Research Letters, 2021, 48, e2021GL093151.	1.5	10
154	Estimating Precipitating Energy Flux, Average Energy, and Hall Auroral Conductance From THEMIS All-Sky-Imagers With Focus on Mesoscales. Frontiers in Physics, 2021, 9, .	1.0	10
155	Multipoint observations of substorm preâ€onset flows and time sequence in the ionosphere and magnetosphere. Journal of Geophysical Research, 2012, 117, .	3.3	9
156	On the Confinement of Ultrarelativistic Electron Remnant Belts to Low Shells. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027469.	0.8	9
157	ARIA II neutral flywheel-driven field-aligned currents in the postmidnight sector of the auroral oval: A case study. Journal of Geophysical Research, 1997, 102, 9749-9759.	3.3	8
158	Poker flat radar observations of the magnetosphereâ€“ionosphere coupling electrodynamics of the earthward penetrating plasma sheet following convection enhancements. Journal of Atmospheric and Solar-Terrestrial Physics, 2009, 71, 717-728.	0.6	8
159	External triggering of substorms identified using modern optical versus geosynchronous particle data. Annales Geophysicae, 2012, 30, 667-673.	0.6	8
160	Localized polar cap precipitation in association with nonstorm time airglow patches. Geophysical Research Letters, 2017, 44, 609-617.	1.5	8
161	Storm Time Mesoscale Plasma Flows in the Nightside Highâ€Latitude Ionosphere: A Statistical Survey of Characteristics. Geophysical Research Letters, 2019, 46, 4079-4088.	1.5	8
162	Radar Observations of Flows Leading to Substorm Onset Over Alaska. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA028147.	0.8	8

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163	Solar and Geomagnetic Activity Impact on Occurrence and Spatial Size of Cold and Hot Polar Cap Patches. Geophysical Research Letters, 2021, 48, e2021GL094526.	1.5	8
164	Spaceâ€Ground Observations of Dynamics of Substorm Onset Beads. Journal of Geophysical Research: Space Physics, 2022, 127, .	0.8	8
165	Statistical study of the effect of ULF fluctuations in the IMF on the cross polar cap potential drop for northward IMF. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	7
166	A statistical study of the relative locations of electron and proton auroral boundaries inferred from meridian scanning photometer observations. Journal of Geophysical Research, 2012, 117, .	3.3	7
167	Source Region and Propagation of Dayside Largeâ€Scale Traveling Ionospheric Disturbances. Geophysical Research Letters, 2020, 47, e2020GL089451.	1.5	7
168	Geospace Plume and Its Impact on Dayside Magnetopause Reconnection Rate. Journal of Geophysical Research: Space Physics, 2021, 126, e2021JA029117.	0.8	7
169	Embedded Regions 1 and 2 Fieldâ€Aligned Currents: Newly Recognized From Lowâ€Altitude Spacecraft Observations. Journal of Geophysical Research: Space Physics, 2021, 126, e2021JA029207.	0.8	7
170	Is Westward Travelling Surge Driven by the Polar Cap Flow Channels?. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA028498.	0.8	7
171	Sensitivity of Upper Atmosphere to Different Characteristics of Flow Bursts in the Auroral Zone. Journal of Geophysical Research: Space Physics, 2021, 126, e2021JA029253.	0.8	7
172	Unsteady Magnetopause Reconnection Under Quasiâ€Steady Solar Wind Driving. Geophysical Research Letters, 2022, 49, .	1.5	7
173	Two-dimensional quiet time equilibrium for the inner plasma sheet protons and magnetic field. Geophysical Research Letters, 2002, 29, 39-1-39-4.	1.5	6
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