Yukitoshi Nishimura

List of Publications by Citations

163 papers	3,698 citations	32 h-index	52 g-index
177 ext. papers	4,454 ext. citations	3.5 avg, IF	5.28 L-index

#	Paper	IF	Citations
163	Identifying the driver of pulsating aurora. *Science*, **2010**, 330, 81-4	33.3	208
162	The Space Physics Environment Data Analysis System (SPEDAS). *Space Science Reviews*, **2019**, 215, 9	7.5	205
161	Substorm triggering by new plasma intrusion: THEMIS all-sky imager observations. *Journal of Geophysical Research*, **2010**, 115,		199
160	Statistical properties of plasmaspheric hiss derived from Van Allen Probes data and their effects on radiation belt electron dynamics. *Journal of Geophysical Research: Space Physics*, **2015**, 120, 3393-3405	2.6	132
159	THEMIS analysis of observed equatorial electron distributions responsible for the chorus excitation. *Journal of Geophysical Research*, **2010**, 115, n/a-n/a		121
158	Typical properties of rising and falling tone chorus waves. *Geophysical Research Letters*, **2011**, 38, n/a-n/a	4.9	84
157	Multievent study of the correlation between pulsating aurora and whistler mode chorus emissions. *Journal of Geophysical Research*, **2011**, 116, n/a-n/a		70
156	New science in plain sight: Citizen scientists lead to the discovery of optical structure in the upper atmosphere. *Science Advances*, **2018**, 4, eaaq0030	14.3	68
155	Mechanism of substorm current wedge formation: THEMIS observations. *Geophysical Research Letters*, **2012**, 39, n/a-n/a	4.9	65
154	Structures of dayside whistler-mode waves deduced from conjugate diffuse aurora. *Journal of Geophysical Research: Space Physics*, **2013**, 118, 664-673	2.6	61
153	The kinetic ballooning/interchange instability as a source of dipolarization fronts and auroral streamers. *Journal of Geophysical Research: Space Physics*, **2014**, 119, 4723-4739	2.6	61
152	Substorm triggering by new plasma intrusion: Incoherent-scatter radar observations. *Journal of Geophysical Research*, **2010**, 115,		60
151	Magnetospheric location of the equatorward prebreakup arc. *Journal of Geophysical Research*, **2012**, 117,		59
150	Coupling of dipolarization front flow bursts to substorm expansion phase phenomena within the magnetosphere and ionosphere. *Journal of Geophysical Research*, **2012**, 117, n/a-n/a		56
149	Relations between multiple auroral streamers, pre-onset thin arc formation, and substorm auroral onset. *Journal of Geophysical Research*, **2011**, 116, n/a-n/a		54
148	Day-night coupling by a localized flow channel visualized by polar cap patch propagation. *Geophysical Research Letters*, **2014**, 41, 3701-3709	4.9	53
147	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		52

146	Chorus wave scattering responsible for the Earth's dayside diffuse auroral precipitation: A detailed case study. *Journal of Geophysical Research: Space Physics*, **2014**, 119, 897-908	2.6	48
145	Substorm onset by new plasma intrusion: THEMIS spacecraft observations. *Journal of Geophysical Research*, **2010**, 115, n/a-n/a		48
144	Preonset time sequence of auroral substorms: Coordinated observations by all-sky imagers, satellites, and radars. *Journal of Geophysical Research*, **2010**, 115, n/a-n/a		48
143	Coordinated SuperDARN THEMIS ASI observations of mesoscale flow bursts associated with auroral streamers. *Journal of Geophysical Research: Space Physics*, **2014**, 119, 142-150	2.6	46
142	Statistical properties of substorm auroral onset beads/rays. *Journal of Geophysical Research: Space Physics*, **2016**, 121, 8661-8676	2.6	45
141	Wire Probe Antenna (WPT) and Electric Field Detector (EFD) of Plasma Wave Experiment (PWE) aboard the Arase satellite: specifications and initial evaluation results. *Earth, Planets and Space*, **2017**, 69,	2.9	42
140	SAPS/SAID revisited: A causal relation to the substorm current wedge. *Journal of Geophysical Research: Space Physics*, **2017**, 122, 8516-8535	2.6	40
139	Observational properties of dayside throat aurora and implications on the possible generation mechanisms. *Journal of Geophysical Research: Space Physics*, **2017**, 122, 1853-1870	2.6	39
138	On the Origin of STEVE: Particle Precipitation or Ionospheric Skyglow?. *Geophysical Research Letters* , **2018**, 45, 7968-7973	4.9	38
137	Formation of substorm Pi2: A coherent response to auroral streamers and currents. *Journal of Geophysical Research*, **2012**, 117, n/a-n/a		35
136	Magnetospheric Signatures of STEVE: Implications for the Magnetospheric Energy Source and Interhemispheric Conjugacy. *Geophysical Research Letters*, **2019**, 46, 5637-5644	4.9	34
135	Substorm onset and expansion phase intensification precursors seen in polar cap patches and arcs. *Journal of Geophysical Research: Space Physics*, **2013**, 118, 2034-2042	2.6	34
134	Diffuse and Pulsating Aurora. *Space Science Reviews*, **2020**, 216, 1	7.5	33
133	A Statistical Analysis of STEVE. *Journal of Geophysical Research: Space Physics*, **2018**, 123, 9893-9905	2.6	33
132	Throat aurora: The ionospheric signature of magnetosheath particles penetrating into the magnetosphere. *Geophysical Research Letters*, **2016**, 43, 1819-1827	4.9	32
131	Dayside Magnetospheric and Ionospheric Responses to a Foreshock Transient on 25 June 2008: 2. 2-D Evolution Based on Dayside Auroral Imaging. *Journal of Geophysical Research: Space Physics*, **2018**, 123, 6347-6359	2.6	32
130	Impacts of Magnetosheath High-Speed Jets on the Magnetosphere and Ionosphere Measured by Optical Imaging and Satellite Observations. *Journal of Geophysical Research: Space Physics*, **2018**, 123, 4879-4894	2.6	31
129	Statistical relationships between enhanced polar cap flows and PBIs. *Journal of Geophysical Research: Space Physics*, **2014**, 119, 151-162	2.6	31

128	Flux transport, dipolarization, and current sheet evolution during a double-onset substorm. *Journal of Geophysical Research*, **2011**, 116,		31
127	Dayside Magnetospheric and Ionospheric Responses to a Foreshock Transient on 25 June 2008: 1. FLR Observed by Satellite and Ground-Based Magnetometers. *Journal of Geophysical Research: Space Physics*, **2018**, 123, 6335-6346	2.6	29
126	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	2.6	29
125	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		29
124	A Study of Intense Local dB/dt Variations During Two Geomagnetic Storms. *Space Weather*, **2018**, 16, 676-693	3.7	29
123	First Observations From the TREx Spectrograph: The Optical Spectrum of STEVE and the Picket Fence Phenomena. *Geophysical Research Letters*, **2019**, 46, 7207-7213	4.9	28
122	Plasmapause location under quiet geomagnetic conditions (Kp □1): THEMIS observations. *Geophysical Research Letters*, **2015**, 42, 7303-7310	4.9	28
121	Global energy transfer during a magnetospheric field line resonance. *Geophysical Research Letters*, **2011**, 38, n/a-n/a	4.9	28
120	SAPS measurements around the magnetic equator by CRRES. *Geophysical Research Letters*, **2008**, 35,	4.9	28
119	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	2.6	26
118	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	2.6	26
117	Distinction between auroral substorm onset and traditional ground magnetic onset signatures. *Journal of Geophysical Research: Space Physics*, **2013**, 118, 4080-4092	2.6	26
116	Estimation of magnetic field mapping accuracy using the pulsating aurora-chorus connection. *Geophysical Research Letters*, **2011**, 38, n/a-n/a	4.9	25
115	Identification of Auroral Zone Activity Driving Large-Scale Traveling Ionospheric Disturbances. *Journal of Geophysical Research: Space Physics*, **2019**, 124, 700-714	2.6	24
114	Empirical modeling of 3-D force-balanced plasma and magnetic field structures during substorm growth phase. *Journal of Geophysical Research: Space Physics*, **2015**, 120, 6496-6513	2.6	24
113	The Origin of Pulsating Aurora: Modulated Whistler Mode Chorus Waves. *Geophysical Monograph Series*, **2013**, 379-388	1.1	24
112	Observations of a Pc5 global (cavity/waveguide) mode outside the plasmasphere by THEMIS. *Journal of Geophysical Research*, **2012**, 117, n/a-n/a		24
111	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	2.6	23

110	Long-lasting poloidal ULF waves observed by multiple satellites and high-latitude SuperDARN radars. *Journal of Geophysical Research: Space Physics*, **2018**, 123, 8422-8438	2.6	23
109	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	2.6	22
108	Influence of Auroral Streamers on Rapid Evolution of Ionospheric SAPS Flows. *Journal of Geophysical Research: Space Physics*, **2017**, 122, 12,406	2.6	22
107	Nighttime Magnetic Perturbation Events Observed in Arctic Canada: 2. Multiple-Instrument Observations. *Journal of Geophysical Research: Space Physics*, **2019**, 124, 7459-7476	2.6	21
106	Photoelectron flows in the polar wind during geomagnetically quiet periods. *Journal of Geophysical Research*, **2012**, 117, n/a-n/a		21
105	Identification of substorm onset location and preonset sequence using Reimei, THEMIS GBO, PFISR, and Geotail. *Journal of Geophysical Research*, **2010**, 115, n/a-n/a		21
104	Rapid enhancement of low-energy (. *Journal of Geophysical Research: Space Physics*, **2016**, 121, 6430-6443	2.6	20
103	Evolution of ring current and radiation belt particles under the influence of storm-time electric fields. *Journal of Geophysical Research*, **2007**, 112, n/a-n/a		20
102	Evolution of nightside subauroral proton aurora caused by transient plasma sheet flows. *Journal of Geophysical Research: Space Physics*, **2014**, 119, 5295-5304	2.6	19
101	Storm-time electric field distribution in the inner magnetosphere. *Geophysical Research Letters*, **2006**, 33,	4.9	19
100	Localized reconnection in the magnetotail driven by lobe flow channels: Global MHD simulation. *Journal of Geophysical Research: Space Physics*, **2016**, 121, 1327-1338	2.6	18
99	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	2.6	17
98	Low-energy ion precipitation structures associated with pulsating auroral patches. *Journal of Geophysical Research: Space Physics*, **2015**, 120, 5408-5431	2.6	17
97	SAPS intensification during substorm recovery: A multi-instrument case study. *Journal of Geophysical Research*, **2011**, 116, n/a-n/a		17
96	Response of convection electric fields in the magnetosphere to IMF orientation change. *Journal of Geophysical Research*, **2009**, 114, n/a-n/a		17
95	The 2-D Structure of Foreshock-Driven Field Line Resonances Observed by THEMIS Satellite and Ground-Based Imager Conjunctions. *Journal of Geophysical Research: Space Physics*, **2019**, 124, 6792-6811	2.6	16
94	Seasonal variations of the electron density distribution in the polar region during geomagnetically quiet periods near solar maximum. *Journal of Geophysical Research*, **2009**, 114, n/a-n/a		16
93	EMIC Wave Properties Associated With and Without Injections in The Inner Magnetosphere. *Journal of Geophysical Research: Space Physics*, **2019**, 124, 2029-2045	2.6	15

92	Spreading Speed of Magnetopause Reconnection X-Lines Using Ground-Satellite Coordination. *Geophysical Research Letters*, **2018**, 45, 80-89	4.9	15
91	Ionospheric flow structures associated with auroral beading at substorm auroral onset. *Journal of Geophysical Research: Space Physics*, **2014**, 119, 9150-9159	2.6	15
90	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	2.6	15
89	Direct measurements of the Poynting flux associated with convection electric fields in the magnetosphere. *Journal of Geophysical Research*, **2010**, 115, n/a-n/a		15
88	Physical Processes of Meso-Scale, Dynamic Auroral Forms. *Space Science Reviews*, **2020**, 216, 1	7.5	14
87	Can Enhanced Flux Loading by High-Speed Jets Lead to a Substorm? Multipoint Detection of the Christmas Day Substorm Onset at 08:17 UT, 2015. *Journal of Geophysical Research: Space Physics*, **2019**, 124, 4314-4340	2.6	14
86	Relation of substorm pre-onset arc to large-scale field-aligned current distribution. *Geophysical Research Letters*, **2012**, 39, n/a-n/a	4.9	14
85	Westward traveling surges: Sliding along boundary arcs and distinction from onset arc brightening. *Journal of Geophysical Research: Space Physics*, **2013**, 118, 7643-7653	2.6	14
84	Localized field-aligned currents in the polar cap associated with airglow patches. *Journal of Geophysical Research: Space Physics*, **2016**, 121, 10,172-10,189	2.6	13
83	Dayside Aurora. *Space Science Reviews*, **2019**, 215, 1	7.5	13
82	Polar cap precursor of nightside auroral oval intensifications using polar cap arcs. *Journal of Geophysical Research: Space Physics*, **2015**, 120, 10,698-10,711	2.6	13
81	Identifying the magnetotail source region leading to preonset poleward boundary intensifications. *Journal of Geophysical Research: Space Physics*, **2013**, 118, 4335-4340	2.6	13
80	Mesoscale F Region Neutral Winds Associated With Quasi-steady and Transient Nightside Auroral Forms. *Journal of Geophysical Research: Space Physics*, **2018**, 123, 7968-7984	2.6	13
79	Flow Shears at the Poleward Boundary of Omega Bands Observed During Conjunctions of Swarm and THEMIS ASI. *Geophysical Research Letters*, **2018**, 45, 1218-1227	4.9	13
78	Statistical Properties of Mesoscale Plasma Flows in the Nightside High-Latitude Ionosphere. *Journal of Geophysical Research: Space Physics*, **2018**, 123, 6798-6820	2.6	12
77	Statistical Analysis of Transverse Size of Lower Band Chorus Waves Using Simultaneous Multisatellite Observations. *Geophysical Research Letters*, **2019**, 46, 5725-5734	4.9	12
76	Coordinated THEMIS spacecraft and all-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	2.6	12
75	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	2.6	12

74	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	2.6	11
73	Comment on Pulsating Auroras Produced by Interactions of Electrons and Time Domain Structures by Mozer Et Al.. *Journal of Geophysical Research: Space Physics*, **2018**, 123, 2064-2070	2.6	11
72	Investigation of triggering of poleward moving auroral forms using satellite-imager coordinated observations. *Journal of Geophysical Research: Space Physics*, **2016**, 121, 10,929	2.6	11
71	Coincidental TID Production by Tropospheric Weather During the August 2017 Total Solar Eclipse. *Geophysical Research Letters*, **2018**, 45, 10,903	4.9	11
70	Simultaneous Measurements of Substorm-Related Electron Energization in the Ionosphere and the Plasma Sheet. *Journal of Geophysical Research: Space Physics*, **2017**, 122, 10,528	2.6	10
69	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,	2.9	10
68	Pitch angle distributions of electrons at dipolarization sites during geomagnetic activity: THEMIS observations. *Journal of Geophysical Research: Space Physics*, **2014**, 119, 9747-9760	2.6	10
67	Coordinated observations of two types of diffuse auroras near magnetic local noon by Magnetospheric Multiscale mission and ground all-sky camera. *Geophysical Research Letters*, **2017**, 44, 8130-8139	4.9	10
66	Chorus intensity modulation driven by time-varying field-aligned low-energy plasma. *Journal of Geophysical Research: Space Physics*, **2015**, 120, 7433-7446	2.6	10
65	Global Propagation of Magnetospheric Pc5 ULF Waves Driven by Foreshock Transients. *Journal of Geophysical Research: Space Physics*, **2020**, 125, e2020JA028411	2.6	10
64	Local time extent of magnetopause reconnection using space ground coordination. *Annales Geophysicae*, **2019**, 37, 215-234	2	9
63	Forces driving fast flow channels, dipolarizations, and turbulence in the magnetotail. *Journal of Geophysical Research: Space Physics*, **2016**, 121, 11,063	2.6	9
62	Stormtime substorm onsets: occurrence and flow channel triggering. *Earth, Planets and Space*, **2018** , 70, 81	2.9	9
61	Response of ionospheric electric fields at mid-low latitudes during sudden commencements. *Journal of Geophysical Research: Space Physics*, **2015**, 120, 4849-4862	2.6	8
60	Magnetospheric Conditions for STEVE and SAID: Particle Injection, Substorm Surge, and Field-Aligned Currents. *Journal of Geophysical Research: Space Physics*, **2020**, 125, e2020JA027782	2.6	8
59	Evolution of the current system during solar wind pressure pulses based on aurora and magnetometer observations. *Earth, Planets and Space*, **2016**, 68,	2.9	8
58	Localized polar cap precipitation in association with nonstorm time airglow patches. *Geophysical Research Letters*, **2017**, 44, 609-617	4.9	7
57	First Ground-Based Conjugate Observations of Stable Auroral Red (SAR) Arcs. *Journal of Geophysical Research: Space Physics*, **2019**, 124, 4658-4671	2.6	7

56	Extreme Magnetosphere-Ionosphere-Thermosphere Responses to the 5 April 2010 Supersubstorm. *Journal of Geophysical Research: Space Physics*, **2020**, 125, e2019JA027654	2.6	7
55	Leveraging Geodetic GPS Receivers for Ionospheric Scintillation Science. *Radio Science*, **2020**, 55, e2020RS007131	1.4	7
54	The plasmapause formation seen from meridian perspective by KAGUYA. *Journal of Geophysical Research: Space Physics*, **2016**, 121, 11,973-11,984	2.6	7
53	Dynamics of Auroral Precipitation Boundaries Associated With STEVE and SAID. *Journal of Geophysical Research: Space Physics*, **2020**, 125, e2020JA028067	2.6	6
52	Propagation and evolution of electric fields associated with solar wind pressure pulses based on spacecraft and ground-based observations. *Journal of Geophysical Research: Space Physics*, **2017**, 122, 8446-8461	2.6	6
51	Azimuthal auroral expansion associated with fast flows in the near-Earth plasma sheet: Coordinated observations of the THEMIS all-sky imagers and multiple spacecraft. *Journal of Geophysical Research*, **2011**, 116, n/a-n/a		6
50	A statistical study of plasma sheet electrons carrying auroral upward field-aligned currents measured by Time History of Events and Macroscale Interactions during Substorms (THEMIS). *Journal of Geophysical Research*, **2011**, 116, n/a-n/a		6
49	Large-amplitude wave electric field in the inner magnetosphere during substorms. *Journal of Geophysical Research*, **2008**, 113, n/a-n/a		6
48	Ionospheric Modulation by Storm Time Pc5 ULF Pulsations and the Structure Detected by PFISR-THEMIS Conjunction. *Geophysical Research Letters*, **2020**, 47, e2020GL089060	4.9	6
47	Airglow Patches in the Polar Cap Region: A Review. *Space Science Reviews*, **2019**, 215, 1	7.5	6
46	Formation of Double Tongues of Ionization During the 17 March 2013 Geomagnetic Storm. *Journal of Geophysical Research: Space Physics*, **2019**, 124, 10619-10630	2.6	6
45	Storm Time Mesoscale Plasma Flows in the Nightside High-Latitude Ionosphere: A Statistical Survey of Characteristics. *Geophysical Research Letters*, **2019**, 46, 4079-4088	4.9	5
44	Relative Contributions of Ion Convection and Particle Precipitation to Exciting Large-Scale Traveling Atmospheric and Ionospheric Disturbances. *Journal of Geophysical Research: Space Physics* , **2020**, 125, e2019JA027342	2.6	5
43	First Simultaneous Lidar Observations of Thermosphere-Ionosphere Fe and Na (TIFe and TINa) Layers at McMurdo (77.84°S, 166.67°E), Antarctica With Concurrent Measurements of Aurora Activity, Enhanced Ionization Layers, and Converging Electric Field. *Geophysical Research Letters*, **2020**, 47, e2020GL090181	4.9	5
42	Impact of Flow Bursts in the Auroral Zone on the Ionosphere and Thermosphere. *Journal of Geophysical Research: Space Physics*, **2019**, 124, 10459-10467	2.6	5
41	Episodic Occurrence of Field-Aligned Energetic Ions on the Dayside. *Geophysical Research Letters*, **2020**, 47, e2019GL086384	4.9	4
40	Optical Signatures of the Outer Radiation Belt Boundary. *Geophysical Research Letters*, **2019**, 46, 8588-8596	4.9	4
39	Modeling the Electron Flux Enhancement and Butterfly Pitch Angle Distributions on L Shells . *Geophysical Research Letters*, **2019**, 46, 10967-10976	4.9	4

38	Space-Ground Observations of Dynamics of Substorm Onset Beads. *Journal of Geophysical Research: Space Physics*, **2022**, 127,	2.6	4
37	Relative contributions of large-scale and wedgelet currents in the substorm current wedge. *Earth, Planets and Space*, **2020**, 72, 106	2.9	4
36	Magnetohydrodynamic With Embedded Particle-In-Cell Simulation of the Geospace Environment Modeling Dayside Kinetic Processes Challenge Event. *Earth and Space Science*, **2020**, 7, e2020EA001331	3.1	4
35	Multiscale Dynamics in the High-Latitude Ionosphere. *Geophysical Monograph Series*, **2021**, 49-65	1.1	4
34	Evolution of Mid-latitude Density Irregularities and Scintillation in North America During the 7 September 2017 Storm. *Journal of Geophysical Research: Space Physics*, **2021**, 126, e2021JA029192	2.6	4
33	A Maximum Spreading Speed for Magnetopause Reconnection. *Geophysical Research Letters*, **2018**, 45, 5268-5273	4.9	4
32	Substorm onset and development: The crucial role of flow channels. *Journal of Atmospheric and Solar-Terrestrial Physics*, **2020**, 211, 105474	2	3
31	The Relation of N-S Auroral Streamers to Auroral Expansion. *Journal of Geophysical Research: Space Physics*, **2020**, 125, e2019JA027063	2.6	3
30	Transient Solar Wind Magnetosphere Ionosphere Interaction Associated with Foreshock and Magnetosheath Transients and Localized Magnetopause Reconnection. *Geophysical Monograph Series*, **2020**, 39-53	1.1	3
29	Sequential Observations of Flux Transfer Events, Poleward-Moving Auroral Forms, and Polar Cap Patches. *Journal of Geophysical Research: Space Physics*, **2020**, 125, e2019JA027674	2.6	3
28	Importance of Regional-Scale Auroral Precipitation and Electrical Field Variability to the Storm-Time Thermospheric Temperature Enhancement and Inversion Layer (TTEIL) in the Antarctic E Region. *Journal of Geophysical Research: Space Physics*, **2020**, 125, e2020JA028224	2.6	3
27	3-D global hybrid simulations of magnetospheric response to foreshock processes. *Earth, Planets and Space*, **2021**, 73,	2.9	3
26	Convection Electric Field and Plasma Convection in a Twisted Magnetotail: A THEMIS Case Study 1 January 2009. *Journal of Geophysical Research: Space Physics*, **2018**, 123, 7486-7497	2.6	3
25	Mesoscale Convection Structures Associated With Airglow Patches Characterized Using Cluster-Imager Conjunctions. *Journal of Geophysical Research: Space Physics*, **2019**, 124, 7513-7532	2.6	2
24	First Simultaneous Observation of STEVE and SAR Arc Combining Data From Citizen Scientists, 630.0´nm All-Sky Images, and Satellites. *Geophysical Research Letters*, **2021**, 48, e2020GL092169	4.9	2
23	Is Westward Travelling Surge Driven by the Polar Cap Flow Channels?. *Journal of Geophysical Research: Space Physics*, **2021**, 126, e2020JA028498	2.6	2
22	Radar Observations of Flows Leading to Longitudinal Expansion of Substorm Onset Over Alaska. *Journal of Geophysical Research: Space Physics*, **2021**, 126, e2020JA028148	2.6	2
21	Multipoint Observations of Quasiperiodic Emission Intensification and Effects on Energetic Electron Precipitation. *Journal of Geophysical Research: Space Physics*, **2021**, 126, e2020JA028484	2.6	2

20	Magnetospheric Source and Electric Current System Associated With Intense SAIDs. *Geophysical Research Letters*, **2021**, 48, e2021GL093253	4.9	1
19	Auroral structures: Revealing the importance of meso-scale M-I coupling **2022**, 65-101		1
18	SECS Analysis of Nighttime Magnetic Perturbation Events Observed in Arctic Canada. *Journal of Geophysical Research: Space Physics*, **2021**, 126, e2021JA029839	2.6	1
17	Source Region and Propagation of Dayside Large-Scale Traveling Ionospheric Disturbances. *Geophysical Research Letters*, **2020**, 47, e2020GL089451	4.9	1
16	Dayside Polar Cap Density Enhancements Formed During Substorms. *Journal of Geophysical Research: Space Physics*, **2020**, 125, e2020JA028101	2.6	1
15	The Active Magnetosphere. *Geophysical Monograph Series*, **2021**, 277-291	1.1	1
14	Radar Observations of Flows Leading to Substorm Onset Over Alaska. *Journal of Geophysical Research: Space Physics*, **2021**, 126, e2020JA028147	2.6	1
13	Effects of Ion Slippage in Earth's Ionosphere and the Plasma Sheet. *Geophysical Research Letters*, **2021**, 48, e2020GL091494	4.9	1
12	Statistical Study of Magnetospheric Conditions for SAPS and SAID. *Geophysical Research Letters*, **2022**, 49,	4.9	1
11	Rainbow of the Night: First Direct Observation of a SAR arc evolving into STEVE. *Geophysical Research Letters*,	4.9	1
10	A Statistical Study of Near-Earth Magnetotail Evolution During Pseudosubstorms and Substorms With THEMIS Data. *Journal of Geophysical Research: Space Physics*, **2020**, 125, e2019JA026642	2.6	0
9	On the relationship between energy input to the ionosphere and the ion outflow flux under different solar zenith angles. *Earth, Planets and Space*, **2021**, 73, 202	2.9	0
8	Neutral Wind Dynamics Preceding the STEVE Occurrence and Their Possible Preconditioning Role in STEVE Formation. *Journal of Geophysical Research: Space Physics*, **2021**, 126, e2020JA028505	2.6	0
7	Cusp Dynamics and Polar Cap Patch Formation Associated With a Small IMF Southward Turning. *Journal of Geophysical Research: Space Physics*, **2021**, 126, e2020JA029090	2.6	0
6	Sensitivity of Upper Atmosphere to Different Characteristics of Flow Bursts in the Auroral Zone. *Journal of Geophysical Research: Space Physics*, **2021**, 126, e2021JA029253	2.6	0
5	Extreme Low-Latitude Total Electron Content Enhancement and Global Positioning System Scintillation at Dawn. *Space Weather*, **2021**, 19, e2021SW002740	3.7	0
4	Comparative Study of Electric Currents and Energetic Particle Fluxes in a Solar Flare and Earth Magnetospheric Substorm. *Astrophysical Journal*, **2021**, 923, 151	4.7	0
3	Auroral Beads in Conjunction With Kinetic Alfvẽn Waves in the Equatorial Inner-Magnetosphere. *Geophysical Research Letters*, **2022**, 49,	4.9	0

2	Auroral Heating of Plasma Patches Due to High-Latitude Reconnection. *Journal of Geophysical Research: Space Physics*, **2021**, 126, e2021JA029657	2.6
1	Middle Latitude Geomagnetic Disturbances Caused by Hall and Pedersen Current Circuits Driven by Prompt Penetration Electric Fields. *Atmosphere*, **2022**, 13, 580	2.7