

# E F Donovan

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/6490489/e-f-donovan-publications-by-citations.pdf>

**Version:** 2024-04-23

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

266  
papers

7,114  
citations

42  
h-index

70  
g-index

276  
ext. papers

8,004  
ext. citations

3.2  
avg, IF

5.55  
L-index

#	Paper	IF	Citations
266	Tail reconnection triggering substorm onset. <i>Science</i> , <b>2008</b> , 321, 931-5	33.3	464
265	The Electric Field and Waves Instruments on the Radiation Belt Storm Probes Mission. <i>Space Science Reviews</i> , <b>2013</b> , 179, 183-220	7.5	360
264	The THEMIS Array of Ground-based Observatories for the Study of Auroral Substorms. <i>Space Science Reviews</i> , <b>2008</b> , 141, 357-387	7.5	251
263	The Space Physics Environment Data Analysis System (SPEDAS). <i>Space Science Reviews</i> , <b>2019</b> , 215, 9	7.5	205
262	Substorm onset observations by IMAGE-FUV. <i>Journal of Geophysical Research</i> , <b>2004</b> , 109,		205
261	First Results from the THEMIS Mission. <i>Space Science Reviews</i> , <b>2008</b> , 141, 453-476	7.5	143
260	The auroral signature of earthward flow bursts observed in the magnetotail. <i>Geophysical Research Letters</i> , <b>2000</b> , 27, 3241-3244	4.9	120
259	Intensification of preexisting auroral arc at substorm expansion phase onset: Wave-like disruption during the first tens of seconds. <i>Geophysical Research Letters</i> , <b>2008</b> , 35,	4.9	115
258	Akebono/Suprathermal Mass Spectrometer observations of low-energy ion outflow: Dependence on magnetic activity and solar wind conditions. <i>Journal of Geophysical Research</i> , <b>2003</b> , 108,		113
257	Evolution and characteristics of global Pc5 ULF waves during a high solar wind speed interval. <i>Journal of Geophysical Research</i> , <b>2005</b> , 110,		108
256	The THEMIS all-sky imaging array system design and initial results from the prototype imager. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , <b>2006</b> , 68, 1472-1487	2	108
255	Timing of magnetic reconnection initiation during a global magnetospheric substorm onset. <i>Geophysical Research Letters</i> , <b>2002</b> , 29, 43-1-43-4	4.9	83
254	GPS TEC, scintillation and cycle slips observed at high latitudes during solar minimum. <i>Annales Geophysicae</i> , <b>2010</b> , 28, 1307-1316	2	82
253	Simultaneous THEMIS in situ and auroral observations of a small substorm. <i>Geophysical Research Letters</i> , <b>2008</b> , 35,	4.9	78
252	A comprehensive survey of auroral latitude Pc5 pulsation characteristics. <i>Journal of Geophysical Research</i> , <b>2003</b> , 108,		74
251	Efficient diffuse auroral electron scattering by electrostatic electron cyclotron harmonic waves in the outer magnetosphere: A detailed case study. <i>Journal of Geophysical Research</i> , <b>2012</b> , 117,		72
250	Quasi-parallel whistler mode waves observed by THEMIS during near-earth dipolarizations. <i>Annales Geophysicae</i> , <b>2009</b> , 27, 2259-2275	2	71

249	Two-dimensional structure of auroral poleward boundary intensifications. <i>Journal of Geophysical Research</i> , <b>2002</b> , 107, SIA 6-1		69
248	New science in plain sight: Citizen scientists lead to the discovery of optical structure in the upper atmosphere. <i>Science Advances</i> , <b>2018</b> , 4, eaaq0030	14.3	68
247	Width and structure of mesoscale optical auroral arcs. <i>Geophysical Research Letters</i> , <b>2001</b> , 28, 705-708	4.9	68
246	The temporal variation of the frequency of high latitude field line resonances. <i>Journal of Geophysical Research</i> , <b>1995</b> , 100, 7987		67
245	Substorms during the 10 <sup>th</sup> August 2000 sawtooth event. <i>Journal of Geophysical Research</i> , <b>2006</b> , 111,		58
244	Equatorward moving auroral signatures of a flow burst observed prior to auroral onset. <i>Geophysical Research Letters</i> , <b>2009</b> , 36,	4.9	57
243	Near-Earth initiation of a terrestrial substorm. <i>Journal of Geophysical Research</i> , <b>2009</b> , 114, n/a-n/a		57
242	Coupling of dipolarization front flow bursts to substorm expansion phase phenomena within the magnetosphere and ionosphere. <i>Journal of Geophysical Research</i> , <b>2012</b> , 117, n/a-n/a		56
241	Ground-based optical determination of the b <sub>2i</sub> boundary: A basis for an optical MT-index. <i>Journal of Geophysical Research</i> , <b>2003</b> , 108,		56
240	Variation of plasmatrough density derived from magnetospheric field line resonances. <i>Journal of Geophysical Research</i> , <b>1996</b> , 101, 24737-24745		55
239	Relation of substorm breakup arc to other growth-phase auroral arcs. <i>Journal of Geophysical Research</i> , <b>2002</b> , 107, SMP 26-1		54
238	Day-night coupling by a localized flow channel visualized by polar cap patch propagation. <i>Geophysical Research Letters</i> , <b>2014</b> , 41, 3701-3709	4.9	53
237	Time-dependent magnetospheric configuration and breakup mapping during a substorm. <i>Journal of Geophysical Research</i> , <b>2011</b> , 116,		52
236	Possible connection of polar cap flows to pre- and post-substorm onset PBIs and streamers. <i>Journal of Geophysical Research</i> , <b>2011</b> , 116, n/a-n/a		52
235	Auroral poleward boundary intensifications (PBIs): Their two-dimensional structure and associated dynamics in the plasma sheet. <i>Journal of Geophysical Research</i> , <b>2006</b> , 111,		51
234	Substorm growth and expansion onset as observed with ideal ground-spacecraft THEMIS coverage. <i>Journal of Geophysical Research</i> , <b>2011</b> , 116,		50
233	Simultaneous ground and satellite observations of an isolated proton arc at subauroral latitudes. <i>Journal of Geophysical Research</i> , <b>2007</b> , 112, n/a-n/a		50
232	Longitudinally propagating arc wave in the pre-onset optical aurora. <i>Geophysical Research Letters</i> , <b>2009</b> , 36,	4.9	49

231	Supply of thermal ionospheric ions to the central plasma sheet. <i>Journal of Geophysical Research</i> , <b>2003</b> , 108,		48
230	Coordinated SuperDARN THEMIS ASI observations of mesoscale flow bursts associated with auroral streamers. <i>Journal of Geophysical Research: Space Physics</i> , <b>2014</b> , 119, 142-150	2.6	46
229	Statistical properties of substorm auroral onset beads/rays. <i>Journal of Geophysical Research: Space Physics</i> , <b>2016</b> , 121, 8661-8676	2.6	45
228	Comment on "Tail reconnection triggering substorm onset". <i>Science</i> , <b>2009</b> , 324, 1391	33.3	45
227	Fine structures and dynamics in auroral initial brightening at substorm onsets. <i>Annales Geophysicae</i> , <b>2009</b> , 27, 623-630	2	43
226	THEMIS observations of electron cyclotron harmonic emissions, ULF waves, and pulsating auroras. <i>Journal of Geophysical Research</i> , <b>2010</b> , 115, n/a-n/a		42
225	Structures in magnetohydrodynamic turbulence: detection and scaling. <i>Physical Review E</i> , <b>2010</b> , 82, 056326	2.6	42
224	In situ spatiotemporal measurements of the detailed azimuthal substructure of the substorm current wedge. <i>Journal of Geophysical Research: Space Physics</i> , <b>2014</b> , 119, 927-946	2.6	41
223	A Review of Pulsating Aurora. <i>Geophysical Monograph Series</i> , <b>2013</b> , 55-68	1.1	41
222	Coordinated ground-based and Cluster observations of large amplitude global magnetospheric oscillations during a fast solar wind speed interval. <i>Annales Geophysicae</i> , <b>2002</b> , 20, 405-426	2	40
221	Bursty bulk flow intrusion to the inner plasma sheet as inferred from auroral observations. <i>Journal of Geophysical Research</i> , <b>2003</b> , 108,		39
220	On the Origin of STEVE: Particle Precipitation or Ionospheric Skyglow?. <i>Geophysical Research Letters</i> , <b>2018</b> , 45, 7968-7973	4.9	38
219	Pc5 modulation of high energy electron precipitation: particle interaction regions and scattering efficiency. <i>Annales Geophysicae</i> , <b>2005</b> , 23, 1533-1542	2	38
218	Pulsating auroral electron flux modulations in the equatorial magnetosphere. <i>Journal of Geophysical Research: Space Physics</i> , <b>2013</b> , 118, 4884-4894	2.6	37
217	Interhemispheric comparison of GPS phase scintillation at high latitudes during the magnetic-cloud-induced geomagnetic storm of 5 <sup>th</sup> April 2010. <i>Annales Geophysicae</i> , <b>2011</b> , 29, 2287-2304 <sup>2</sup>		37
216	Ground based identification of dispersionless electron injections. <i>Geophysical Research Letters</i> , <b>2007</b> , 34,	4.9	36
215	Observations of the phases of the substorm. <i>Journal of Geophysical Research</i> , <b>2003</b> , 108,		36
214	Correlated Pc4B ULF waves, whistler-mode chorus, and pulsating aurora observed by the Van Allen Probes and ground-based systems. <i>Journal of Geophysical Research: Space Physics</i> , <b>2015</b> , 120, 8749-8761	2.6	35

213	Formation of substorm Pi2: A coherent response to auroral streamers and currents. <i>Journal of Geophysical Research</i> , <b>2012</b> , 117, n/a-n/a		35
212	Large-scale aspects and temporal evolution of pulsating aurora. <i>Journal of Geophysical Research</i> , <b>2011</b> , 116,		35
211	Kinetic-scale magnetic turbulence and finite Larmor radius effects at Mercury. <i>Journal of Geophysical Research</i> , <b>2011</b> , 116, n/a-n/a		35
210	Determination of the substorm initiation region from a major conjunction interval of THEMIS satellites. <i>Journal of Geophysical Research</i> , <b>2008</b> , 113, n/a-n/a		35
209	Magnetospheric Signatures of STEVE: Implications for the Magnetospheric Energy Source and Interhemispheric Conjugacy. <i>Geophysical Research Letters</i> , <b>2019</b> , 46, 5637-5644	4.9	34
208	Substorm onset and expansion phase intensification precursors seen in polar cap patches and arcs. <i>Journal of Geophysical Research: Space Physics</i> , <b>2013</b> , 118, 2034-2042	2.6	34
207	Diurnal auroral occurrence statistics obtained via machine vision. <i>Annales Geophysicae</i> , <b>2004</b> , 22, 1103-1113		34
206	GPS TEC technique for observation of the evolution of substorm particle precipitation. <i>Journal of Geophysical Research</i> , <b>2011</b> , 116, n/a-n/a		33
205	Fast earthward flows, electron cyclotron harmonic waves, and diffuse auroras: Conjunctive observations and a synthesized scenario. <i>Journal of Geophysical Research</i> , <b>2011</b> , 116, n/a-n/a		33
204	A Statistical Analysis of STEVE. <i>Journal of Geophysical Research: Space Physics</i> , <b>2018</b> , 123, 9893-9905	2.6	33
203	Statistical relationships between enhanced polar cap flows and PBIs. <i>Journal of Geophysical Research: Space Physics</i> , <b>2014</b> , 119, 151-162	2.6	31
202	Persistent, widespread pulsating aurora: A case study. <i>Journal of Geophysical Research: Space Physics</i> , <b>2013</b> , 118, 2998-3006	2.6	31
201	Steve: The Optical Signature of Intense Subauroral Ion Drifts. <i>Geophysical Research Letters</i> , <b>2019</b> , 46, 6279-6286	4.9	30
200	Auroral Substorms, Poleward Boundary Activations, Auroral Streamers, Omega Bands, and Onset Precursor Activity. <i>Geophysical Monograph Series</i> , <b>2013</b> , 39-54	1.1	30
199	Azimuthal flow bursts in the inner plasma sheet and possible connection with SAPS and plasma sheet earthward flow bursts. <i>Journal of Geophysical Research: Space Physics</i> , <b>2015</b> , 120, 5009-5021	2.6	29
198	Near-Earth plasma sheet azimuthal pressure gradient and associated auroral development soon before substorm onset. <i>Journal of Geophysical Research</i> , <b>2011</b> , 116, n/a-n/a		29
197	Modeling the magnetic effects of field-aligned currents. <i>Journal of Geophysical Research</i> , <b>1993</b> , 98, 13529-13543		29
196	First Observations From the TReX Spectrograph: The Optical Spectrum of STEVE and the Picket Fence Phenomena. <i>Geophysical Research Letters</i> , <b>2019</b> , 46, 7207-7213	4.9	28

195	Key features of >30 keV electron precipitation during high speed solar wind streams: A superposed epoch analysis. <i>Journal of Geophysical Research</i> , <b>2012</b> , 117, n/a-n/a		27
194	Magnetospheric field-line resonances: Ground-based observations and modeling. <i>Journal of Geophysical Research</i> , <b>2005</b> , 110,		27
193	Large-scale vortex dynamics in the evening and midnight auroral zone: Observations and simulations. <i>Journal of Geophysical Research</i> , <b>2000</b> , 105, 18505-18518		27
192	Localized polar cap flow enhancement tracing using airglow patches: Statistical properties, IMF dependence, and contribution to polar cap convection. <i>Journal of Geophysical Research: Space Physics</i> , <b>2015</b> , 120, 4064-4078	2.6	26
191	Three-dimensional data assimilation and reanalysis of radiation belt electrons: Observations of a four-zone structure using five spacecraft and the VERB code. <i>Journal of Geophysical Research: Space Physics</i> , <b>2014</b> , 119, 8764-8783	2.6	26
190	Distinction between auroral substorm onset and traditional ground magnetic onset signatures. <i>Journal of Geophysical Research: Space Physics</i> , <b>2013</b> , 118, 4080-4092	2.6	26
189	Timing and location of substorm onsets from THEMIS satellite and ground based observations. <i>Annales Geophysicae</i> , <b>2009</b> , 27, 2813-2830	2	25
188	On an energy-latitude dispersion pattern of ion precipitation potentially associated with magnetospheric EMIC waves. <i>Journal of Geophysical Research: Space Physics</i> , <b>2014</b> , 119, 8137-8160	2.6	24
187	The Origin of Pulsating Aurora: Modulated Whistler Mode Chorus Waves. <i>Geophysical Monograph Series</i> , <b>2013</b> , 379-388	1.1	24
186	Start-to-end global imaging of a sunward propagating, SAPS-associated giant undulation event. <i>Journal of Geophysical Research</i> , <b>2010</b> , 115, n/a-n/a		24
185	Coordinated ionospheric observations indicating coupling between preonset flow bursts and waves that lead to substorm onset. <i>Journal of Geophysical Research: Space Physics</i> , <b>2014</b> , 119, 3333-3344	2.6	23
184	Dipolarization fronts and associated auroral activities: 1. Conjugate observations and perspectives from global MHD simulations. <i>Journal of Geophysical Research</i> , <b>2012</b> , 117, n/a-n/a		23
183	The Vertical Distribution of the Optical Emissions of a Steve and Picket Fence Event. <i>Geophysical Research Letters</i> , <b>2019</b> , 46, 10719-10725	4.9	22
182	Utilizing the Heliophysics/Geospace System Observatory to Understand Particle Injections: Their Scale Sizes and Propagation Directions. <i>Journal of Geophysical Research: Space Physics</i> , <b>2019</b> , 124, 5584-5609	2.6	22
181	Influence of Auroral Streamers on Rapid Evolution of Ionospheric SAPS Flows. <i>Journal of Geophysical Research: Space Physics</i> , <b>2017</b> , 122, 12,406	2.6	22
180	Correlation of substorm injections, auroral modulations, and ground Pi2. <i>Geophysical Research Letters</i> , <b>2008</b> , 35,	4.9	22
179	Dual structure of auroral acceleration regions at substorm onsets as derived from auroral kilometric radiation spectra. <i>Journal of Geophysical Research</i> , <b>2007</b> , 112, n/a-n/a		22
178	Using patchy pulsating aurora to remote sense magnetospheric convection. <i>Geophysical Research Letters</i> , <b>2015</b> , 42, 5083-5089	4.9	21

177	In situ observations of the preexisting auroral arc by THEMIS all sky imagers and the FAST spacecraft. <i>Journal of Geophysical Research</i> , <b>2012</b> , 117, n/a-n/a		21
176	Two-step evolution of auroral acceleration at substorm onset. <i>Journal of Geophysical Research</i> , <b>2010</b> , 115, n/a-n/a		21
175	Identifying STEVE's Magnetospheric Driver Using Conjugate Observations in the Magnetosphere and on the Ground. <i>Geophysical Research Letters</i> , <b>2019</b> , 46, 12665-12674	4.9	21
174	Observations of the auroral width spectrum at kilometre-scale size. <i>Annales Geophysicae</i> , <b>2010</b> , 28, 711-718		20
173	Rayleigh-Taylor type instability in auroral patches. <i>Journal of Geophysical Research</i> , <b>2010</b> , 115, n/a-n/a		20
172	On the 630 nm red-line pulsating aurora: Red-line Emission Geospace Observatory observations and model simulations. <i>Journal of Geophysical Research: Space Physics</i> , <b>2016</b> , 121, 7988-8012	2.6	19
171	Evolution of nightside subauroral proton aurora caused by transient plasma sheet flows. <i>Journal of Geophysical Research: Space Physics</i> , <b>2014</b> , 119, 5295-5304	2.6	19
170	The Acceleration Region of Stable Auroral Arcs. <i>Geophysical Monograph Series</i> , <b>2013</b> , 227-240	1.1	19
169	If substorm onset triggers tail reconnection, what triggers substorm onset?. <i>Journal of Geophysical Research</i> , <b>2012</b> , 117, n/a-n/a		19
168	Longitudinal development of a substorm brightening arc. <i>Annales Geophysicae</i> , <b>2009</b> , 27, 1935-1940	2	19
167	Scale-free and scale-dependent modes of energy release dynamics in the nighttime magnetosphere. <i>Geophysical Research Letters</i> , <b>2008</b> , 35,	4.9	19
166	Azimuthal structures of substorm electron injection and their signatures in riometer observations. <i>Journal of Geophysical Research</i> , <b>2007</b> , 112, n/a-n/a		19
165	THEMIS Ground Based Observatory System Design. <i>Space Science Reviews</i> , <b>2008</b> , 141, 213-233	7.5	19
164	Spatiotemporal characteristics of ultra-low frequency dispersive scale shear Alfvén waves in the Earth's magnetosphere. <i>Physics of Plasmas</i> , <b>2004</b> , 11, 1268-1276	2.1	19
163	Auroral fragmentation into patches. <i>Journal of Geophysical Research: Space Physics</i> , <b>2014</b> , 119, 8249-8261	1.6	18
162	Comparative Auroral Physics: Earth and Other Planets. <i>Geophysical Monograph Series</i> , <b>2013</b> , 3-26	1.1	18
161	Swarm Observation of Field-Aligned Currents Associated With Multiple Auroral Arc Systems. <i>Journal of Geophysical Research: Space Physics</i> , <b>2017</b> , 122, 10,145-10,156	2.6	18
160	Swarm observations of field-aligned currents associated with pulsating auroral patches. <i>Journal of Geophysical Research: Space Physics</i> , <b>2015</b> , 120, 9484-9499	2.6	18

159	Electrodynamics of the high-latitude trough: Its relationship with convection flows and field-aligned currents. <i>Journal of Geophysical Research: Space Physics</i> , <b>2013</b> , 118, 2565-2572	2.6	18
158	Global simulation of proton precipitation due to field line curvature during substorms. <i>Journal of Geophysical Research</i> , <b>2012</b> , 117, n/a-n/a		18
157	Coordinated Cluster, ground-based instrumentation and low-altitude satellite observations of transient poleward-moving events in the ionosphere and in the tail lobe. <i>Annales Geophysicae</i> , <b>2001</b> , 19, 1589-1612	2	18
156	Internal consistency of the Tsyganenko Magnetic Field Model and the Heppner-Maynard Empirical Model of the ionospheric electric field distribution. <i>Geophysical Research Letters</i> , <b>1991</b> , 18, 1043-1046	4.9	18
155	The 17 March 2013 storm: Synergy of observations related to electric field modes and their ionospheric and magnetospheric Effects. <i>Journal of Geophysical Research: Space Physics</i> , <b>2016</b> , 121, 10,880 <sup>26</sup>		17
154	Low-energy ion precipitation structures associated with pulsating auroral patches. <i>Journal of Geophysical Research: Space Physics</i> , <b>2015</b> , 120, 5408-5431	2.6	17
153	Alfvén Wave Acceleration of Auroral Electrons in Warm Magnetospheric Plasma. <i>Geophysical Monograph Series</i> , <b>2013</b> , 251-260	1.1	17
152	On the formation of pre-onset azimuthal pressure gradient in the near-Earth plasma sheet. <i>Journal of Geophysical Research</i> , <b>2012</b> , 117, n/a-n/a		17
151	Injection region propagation outside of geosynchronous orbit. <i>Journal of Geophysical Research</i> , <b>2010</b> , 115, n/a-n/a		17
150	Determination of substorm onset timing and location using the THEMIS ground based observatories. <i>Geophysical Research Letters</i> , <b>2007</b> , 34,	4.9	17
149	In-situ observation of ULF wave activities associated with substorm expansion phase onset and current disruption. <i>Annales Geophysicae</i> , <b>2009</b> , 27, 2191-2204	2	17
148	First observations from the RISR-C incoherent scatter radar. <i>Radio Science</i> , <b>2016</b> , 51, 1645-1659	1.4	17
147	Birkeland current boundary flows. <i>Journal of Geophysical Research: Space Physics</i> , <b>2017</b> , 122, 4617-4627	2.6	16
146	A survey of quiet auroral arc orientation and the effects of the interplanetary magnetic field. <i>Journal of Geophysical Research: Space Physics</i> , <b>2014</b> , 119, 2550-2562	2.6	16
145	Current sheet scattering and ion isotropic boundary under 3-D empirical force-balanced magnetic field. <i>Journal of Geophysical Research: Space Physics</i> , <b>2014</b> , 119, 8202-8211	2.6	16
144	Visualization of ion cyclotron wave and particle interactions in the inner magnetosphere via THEMIS-ASI observations. <i>Journal of Geophysical Research</i> , <b>2012</b> , 117, n/a-n/a		16
143	Magnetospheric Dynamics and the Proton Aurora. <i>Geophysical Monograph Series</i> , <b>2013</b> , 365-378	1.1	16
142	Multiscale auroral emission statistics as evidence of turbulent reconnection in Earth's midtail plasma sheet. <i>Journal of Geophysical Research</i> , <b>2010</b> , 115, n/a-n/a		16



141	A transient narrow poleward extrusion from the diffuse aurora and the concurrent magnetotail activity. <i>Journal of Geophysical Research</i> , <b>2010</b> , 115, n/a-n/a		16
140	Azimuthal structures of ray auroras at the beginning of auroral substorms. <i>Geophysical Research Letters</i> , <b>2009</b> , 36,	4.9	16
139	THEMIS observations of the near-Earth plasma sheet during a substorm. <i>Journal of Geophysical Research</i> , <b>2009</b> , 114, n/a-n/a		16
138	AKR breakup and auroral particle acceleration at substorm onset. <i>Journal of Geophysical Research</i> , <b>2008</b> , 113, n/a-n/a		16
137	Comparison of intense nightside shock-induced precipitation and substorm activity. <i>Journal of Geophysical Research</i> , <b>2005</b> , 110,		16
136	A statistical study of the motion of pulsating aurora patches: using the THEMIS All-Sky Imager. <i>Annales Geophysicae</i> , <b>2017</b> , 35, 217-225	2	15
135	Ionospheric flow structures associated with auroral beading at substorm auroral onset. <i>Journal of Geophysical Research: Space Physics</i> , <b>2014</b> , 119, 9150-9159	2.6	15
134	Tail reconnection region versus auroral activity inferred from conjugate ARTEMIS plasma sheet flow and auroral observations. <i>Journal of Geophysical Research: Space Physics</i> , <b>2013</b> , 118, 5758-5766	2.6	15
133	Midnight sector observations of auroral omega bands. <i>Journal of Geophysical Research</i> , <b>2011</b> , 116,		15
132	SMILE: a joint ESA/CAS mission to investigate the interaction between the solar wind and Earth's magnetosphere <b>2016</b> ,		15
131	Differentiating diffuse auroras based on phenomenology. <i>Annales Geophysicae</i> , <b>2018</b> , 36, 891-898	2	15
130	Link between premidnight second harmonic poloidal waves and auroral undulations: Conjugate observations with a Van Allen Probe spacecraft and a THEMIS all-sky imager. <i>Journal of Geophysical Research: Space Physics</i> , <b>2015</b> , 120, 1814-1831	2.6	14
129	Auroral Signatures of Ballooning Mode Near Substorm Onset: Open Geospace General Circulation Model Simulations. <i>Geophysical Monograph Series</i> , <b>2013</b> , 389-396	1.1	14
128	Relation of substorm pre-onset arc to large-scale field-aligned current distribution. <i>Geophysical Research Letters</i> , <b>2012</b> , 39, n/a-n/a	4.9	14
127	Westward traveling surges: Sliding along boundary arcs and distinction from onset arc brightening. <i>Journal of Geophysical Research: Space Physics</i> , <b>2013</b> , 118, 7643-7653	2.6	14
126	Ionospheric convection signatures of tail fast flows during substorms and Poleward Boundary Intensifications (PBI). <i>Geophysical Research Letters</i> , <b>2011</b> , 38, n/a-n/a	4.9	14
125	Comprehensive ground-based and in situ observations of substorm expansion phase onset. <i>Journal of Geophysical Research</i> , <b>2010</b> , 115, n/a-n/a		14
124	Global observations of substorm injection region evolution: 27 August 2001. <i>Annales Geophysicae</i> , <b>2009</b> , 27, 2019-2025	2	14

123	THEMIS ground-space observations during the development of auroral spirals. <i>Annales Geophysicae</i> , <b>2009</b> , 27, 4317-4332	2	14
122	Regions of negative Bz in the Tsyganenko 1989 Model Neutral Sheet. <i>Journal of Geophysical Research</i> , <b>1992</b> , 97, 8697		14
121	A Statistical Survey of the 630.0-nm Optical Signature of Periodic Auroral Arcs Resulting From Magnetospheric Field Line Resonances. <i>Geophysical Research Letters</i> , <b>2018</b> , 45, 4648-4655	4.9	14
120	Polar cap precursor of nightside auroral oval intensifications using polar cap arcs. <i>Journal of Geophysical Research: Space Physics</i> , <b>2015</b> , 120, 10,698-10,711	2.6	13
119	Identifying the magnetotail source region leading to preonset poleward boundary intensifications. <i>Journal of Geophysical Research: Space Physics</i> , <b>2013</b> , 118, 4335-4340	2.6	13
118	Space weather explorer ¶The KuaFu mission. <i>Advances in Space Research</i> , <b>2008</b> , 41, 190-209	2.4	13
117	Substorm associated changes in the high-latitude ionospheric convection. <i>Geophysical Research Letters</i> , <b>2003</b> , 30,	4.9	13
116	Statistical Properties of Mesoscale Plasma Flows in the Nightside High-Latitude Ionosphere. <i>Journal of Geophysical Research: Space Physics</i> , <b>2018</b> , 123, 6798-6820	2.6	12
115	Auroral Signatures of the Dynamic Plasma Sheet. <i>Geophysical Monograph Series</i> , <b>2013</b> , 317-336	1.1	12
114	Identifying the 630´nm auroral arc emission height: A comparison of the triangulation, FAC profile, and electron density methods. <i>Journal of Geophysical Research: Space Physics</i> , <b>2017</b> , 122, 8181-8197	2.6	12
113	Tracking patchy pulsating ¶aurora through all-sky images. <i>Annales Geophysicae</i> , <b>2017</b> , 35, 777-784	2	12
112	Coordinated THEMIS spacecraft and all-sky imager observations of interplanetary shock effects on plasma sheet flow bursts, poleward boundary intensifications, and streamers. <i>Journal of Geophysical Research: Space Physics</i> , <b>2013</b> , 118, 3346-3356	2.6	12
111	Multi-instrument observations of soft electron precipitation and its association with magnetospheric flows. <i>Journal of Geophysical Research</i> , <b>2011</b> , 116, n/a-n/a		12
110	Satellite and ground-based observations of auroral energy deposition and the effects on thermospheric composition during large geomagnetic storms: 1. Great geomagnetic storm of 20 November 2003. <i>Journal of Geophysical Research</i> , <b>2008</b> , 113, n/a-n/a		12
109	Interaction between kinetic ballooning perturbation and thin current sheet: Quasi-electrostatic field, local onset, and global characteristics. <i>Geophysical Research Letters</i> , <b>2008</b> , 35,	4.9	12
108	Optical Spectra and Emission Altitudes of Double-Layer STEVE: A Case Study. <i>Geophysical Research Letters</i> , <b>2019</b> , 46, 13630-13639	4.9	12
107	Surveying pulsating auroras. <i>Annales Geophysicae</i> , <b>2020</b> , 38, 1-8	2	11
106	Comment on ¶Pulsating Auroras Produced by Interactions of Electrons and Time Domain Structures¶by Mozer Et Al.. <i>Journal of Geophysical Research: Space Physics</i> , <b>2018</b> , 123, 2064-2070	2.6	11

105	Statistical Characteristics of Polar Cap Patches Observed by RISR-C. <i>Journal of Geophysical Research: Space Physics</i> , <b>2018</b> , 123, 6981-6995	2.6	11
104	Responses of Different Types of Pulsating Aurora in Cosmic Noise Absorption. <i>Geophysical Research Letters</i> , <b>2019</b> , 46, 5717-5724	4.9	11
103	Electron and wave characteristics observed by the THEMIS satellites near the magnetic equator during a pulsating aurora. <i>Journal of Geophysical Research</i> , <b>2012</b> , 117, n/a-n/a		11
102	Electrostatic field and ion temperature drop in thin current sheets: A theory. <i>Journal of Geophysical Research</i> , <b>2010</b> , 115, n/a-n/a		11
101	Ion temperature drop and quasi-electrostatic electric field at the current sheet boundary minutes prior to the local current disruption. <i>Journal of Geophysical Research</i> , <b>2009</b> , 114, n/a-n/a		11
100	EL - a possible indicator to monitor the magnetic field stretching at global scale during substorm expansive phase: Statistical study. <i>Journal of Geophysical Research</i> , <b>2007</b> , 112, n/a-n/a		11
99	Characterization of the energy-dependent response of riometer absorption. <i>Journal of Geophysical Research: Space Physics</i> , <b>2015</b> , 120, 615-631	2.6	10
98	Auroral Disturbances as a Manifestation of Interplay Between Large-Scale and Mesoscale Structure of Magnetosphere-Ionosphere Electrodynamical Coupling. <i>Geophysical Monograph Series</i> , <b>2013</b> , 193-204 <sup>1.1</sup>		10
97	Electromagnetic ELF wave intensification associated with fast earthward flows in mid-tail plasma sheet. <i>Annales Geophysicae</i> , <b>2012</b> , 30, 467-488	2	10
96	SuperDARN E-region backscatter boundary in the dusk-midnight sector Tracer of equatorward boundary of the auroral oval. <i>Annales Geophysicae</i> , <b>2002</b> , 20, 1899-1904	2	10
95	e-POP and Red Line Optical Observations of Alfvénic Auroras. <i>Journal of Geophysical Research: Space Physics</i> , <b>2019</b> , 124, 4672-4696	2.6	9
94	Auroral Morphology: A Historical Account and Major Auroral Features During Auroral Substorms. <i>Geophysical Monograph Series</i> , <b>2013</b> , 29-38	1.1	9
93	Mutual Evolution of Aurora and Ionospheric Electrodynamical Features Near the Harang Reversal During Substorms. <i>Geophysical Monograph Series</i> , <b>2013</b> , 159-170	1.1	9
92	Multiprobe estimation of field line curvature radius in the equatorial magnetosphere and the use of proton precipitations in magnetosphere-ionosphere mapping. <i>Journal of Geophysical Research: Space Physics</i> , <b>2013</b> , 118, 4924-4945	2.6	9
91	Data-derived spatiotemporal resolution constraints for global auroral imagers. <i>Journal of Geophysical Research</i> , <b>2010</b> , 115, n/a-n/a		9
90	On the equatorward motion and fading of proton aurora during substorm growth phase. <i>Journal of Geophysical Research</i> , <b>2007</b> , 112, n/a-n/a		9
89	Using colour in auroral imaging. <i>Canadian Journal of Physics</i> , <b>2007</b> , 85, 101-109	1.1	9
88	Evidence for a discrete spectrum of persistent magnetospheric fluctuations below 1 mHz. <i>Journal of Geophysical Research</i> , <b>2003</b> , 108,		9

87	Collective dynamics of bursty particle precipitation initiating in the inner and outer plasma sheet. <i>Annales Geophysicae</i> , <b>2009</b> , 27, 745-753	2	9
86	Stormtime substorm onsets: occurrence and flow channel triggering. <i>Earth, Planets and Space</i> , <b>2018</b> , 70, 81	2.9	9
85	Particle energization by a substorm dipolarization. <i>Journal of Geophysical Research: Space Physics</i> , <b>2017</b> , 122, 349-367	2.6	8
84	Auroral Arc Electrodynamics: Review and Outlook. <i>Geophysical Monograph Series</i> , <b>2013</b> , 143-158	1.1	8
83	Ionospheric electron heating associated with pulsating auroras: A Swarm survey and model simulation. <i>Journal of Geophysical Research: Space Physics</i> , <b>2017</b> , 122, 8781-8807	2.6	8
82	Multipoint observations of substorm pre-onset flows and time sequence in the ionosphere and magnetosphere. <i>Journal of Geophysical Research</i> , <b>2012</b> , 117, n/a-n/a		8
81	Remote-sensing magnetospheric dynamics with riometers: Observation and theory. <i>Journal of Geophysical Research</i> , <b>2007</b> , 112, n/a-n/a		8
80	Observation of radio-wave-induced red hydroxyl emission at low altitude in the ionosphere. <i>Physical Review Letters</i> , <b>2005</b> , 94, 095004	7.4	8
79	Substorm dynamics revealed by ground observations of two-dimensional auroral structures on 9 October 2000. <i>Annales Geophysicae</i> , <b>2005</b> , 23, 3599-3613	2	8
78	An interhemispheric comparison of GPS phase scintillation with auroral emission observed at the South Pole and from the DMSP satellite. <i>Annals of Geophysics</i> , <b>2013</b> , 56,	1.1	8
77	Magnetospheric Conditions for STEVE and SAID: Particle Injection, Substorm Surge, and Field-Aligned Currents. <i>Journal of Geophysical Research: Space Physics</i> , <b>2020</b> , 125, e2020JA027782	2.6	8
76	The THEMIS Array of Ground-based Observatories for the Study of Auroral Substorms <b>2009</b> , 357-387		8
75	A dedicated H-beta meridian scanning photometer for proton aurora measurement. <i>Journal of Geophysical Research: Space Physics</i> , <b>2017</b> , 122, 753-764	2.6	7
74	Extreme Magnetosphere-Ionosphere-Thermosphere Responses to the 5 April 2010 Supersubstorm. <i>Journal of Geophysical Research: Space Physics</i> , <b>2020</b> , 125, e2019JA027654	2.6	7
73	Substorm Associated Spikes in High Energy Particle Precipitation. <i>Geophysical Monograph Series</i> , <b>2013</b> , 227-236	1.1	7
72	Entropy conservation and rate of propagation of bubbles in the Earth's magnetotail: A case study. <i>Journal of Geophysical Research</i> , <b>2012</b> , 117, n/a-n/a		7
71	A statistical study of the relative locations of electron and proton auroral boundaries inferred from meridian scanning photometer observations. <i>Journal of Geophysical Research</i> , <b>2012</b> , 117, n/a-n/a		7
70	Dual scaling for self-organized critical models of the magnetosphere. <i>Journal of Geophysical Research</i> , <b>2010</b> , 115, n/a-n/a		7

69	Observation of isolated high-speed auroral streamers and their interpretation as optical signatures of Alfvén waves generated by bursty bulk flows. <i>Geophysical Research Letters</i> , <b>2008</b> , 35,	4.9	7
68	Effects of the magnetic field model and wave polarisation on the estimation of proton number densities in the magnetosphere using field line resonances. <i>Planetary and Space Science</i> , <b>2007</b> , 55, 809-819		7
67	Global and local equatorward expansion of the ion auroral oval before substorm onsets. <i>Journal of Geophysical Research</i> , <b>2005</b> , 110,		7
66	Convection dynamics and driving mechanism of a small substorm during dominantly IMF By+, Bz+ conditions. <i>Geophysical Research Letters</i> , <b>2004</b> , 31,	4.9	7
65	On the spatial and temporal relationship between auroral intensification and flow enhancement in a pseudosubstorm event. <i>Journal of Geophysical Research</i> , <b>2004</b> , 109,		7
64	EON-ROSE and the Canadian Cordillera Array [Building Bridges to Span Earth System Science in Canada. <i>Geoscience Canada</i> , <b>2018</b> , 45, 97-109	3.5	7
63	Substorm related changes in precipitation in the dayside auroral zone – a multi instrument case study. <i>Annales Geophysicae</i> , <b>2002</b> , 20, 1321-1334	2	7
62	Dynamics of Auroral Precipitation Boundaries Associated With STEVE and SAID. <i>Journal of Geophysical Research: Space Physics</i> , <b>2020</b> , 125, e2020JA028067	2.6	6
61	Multispacecraft Observations of Auroral Acceleration by Cluster. <i>Geophysical Monograph Series</i> , <b>2013</b> , 261-270	1.1	6
60	External triggering of substorms identified using modern optical versus geosynchronous particle data. <i>Annales Geophysicae</i> , <b>2012</b> , 30, 667-673	2	6
59	Modeling the relationship between substorm dipolarization and dispersionless injection. <i>Journal of Geophysical Research</i> , <b>2011</b> , 116, n/a-n/a		6
58	Periodic black auroral patches at the dawnside dipolarization front during a substorm. <i>Journal of Geophysical Research</i> , <b>2011</b> , 116,		6
57	Statistics of the longitudinal splitting of proton aurora during substorms. <i>Journal of Geophysical Research</i> , <b>2011</b> , 116, n/a-n/a		6
56	Conjugate comparison of Super Dual Auroral Radar Network and Cluster electron drift instrument measurements of E × B plasma drift. <i>Journal of Geophysical Research</i> , <b>2004</b> , 109,		6
55	Ionospheric Electron Heating Associated With Pulsating Auroras: Joint Optical and PFISR Observations. <i>Journal of Geophysical Research: Space Physics</i> , <b>2018</b> , 123, 4430-4456	2.6	6
54	First Results from the THEMIS Mission <b>2009</b> , 453-476		6
53	The Magnetospheric Source Region of the Bright Proton Aurora. <i>Geophysical Research Letters</i> , <b>2017</b> , 44, 10,094-10,099	4.9	5
52	On a possible connection between the longitudinally propagating near-Earth plasma sheet and auroral arc waves: A reexamination. <i>Journal of Geophysical Research: Space Physics</i> , <b>2015</b> , 120, 432-444	2.6	5

51	Direct auroral precipitation from the magnetotail during substorms. <i>Geophysical Research Letters</i> , <b>2013</b> , 40, 3787-3792	4.9	5
50	Quasi-parallel electron beams and their possible application in inferring the auroral arc's root in the magnetosphere. <i>Annales Geophysicae</i> , <b>2013</b> , 31, 1077-1101	2	5
49	Advection of magnetic energy as a source of power for auroral arcs. <i>Geophysical Research Letters</i> , <b>2011</b> , 38, n/a-n/a	4.9	5
48	Longitudinal Development of Poleward Boundary Intensifications (PBIs) of Auroral Emission. <i>Journal of Geophysical Research: Space Physics</i> , <b>2018</b> , 123, 9005-9021	2.6	5
47	Toward the Reconstruction of Substorm-Related Dynamical Pattern of the Radiowave Auroral Absorption. <i>Space Weather</i> , <b>2020</b> , 18, e2019SW002385	3.7	4
46	Selection of FUV auroral imagers for satellite missions. <i>Journal of Geophysical Research: Space Physics</i> , <b>2016</b> , 121, 10,019-10,031	2.6	4
45	Dynamics of the correlation between polar cap radio absorption and solar energetic proton fluxes in the interplanetary medium. <i>Journal of Geophysical Research: Space Physics</i> , <b>2014</b> , 119, 1627-1642	2.6	4
44	The Search for Double Layers in Space Plasmas. <i>Geophysical Monograph Series</i> , <b>2013</b> , 241-250	1.1	4
43	Two-Step Acceleration of Auroral Particles at Substorm Onset as Derived From Auroral Kilometric Radiation Spectra. <i>Geophysical Monograph Series</i> , <b>2013</b> , 279-286	1.1	4
42	Global auroral imaging in the ILWS era. <i>Advances in Space Research</i> , <b>2007</b> , 40, 409-418	2.4	4
41	Storm-substorm coupling during 16 Hours of Dst steadily at $\approx 50$ nT. <i>Geophysical Monograph Series</i> , <b>2005</b> , 155-161	1.1	4
40	Observations of nightside magnetic reconnection during substorm growth and expansion phases. <i>Journal of Geophysical Research</i> , <b>2006</b> , 111,		4
39	Space-Ground Observations of Dynamics of Substorm Onset Beads. <i>Journal of Geophysical Research: Space Physics</i> , <b>2022</b> , 127,	2.6	4
38	Relative contributions of large-scale and wedgelet currents in the substorm current wedge. <i>Earth, Planets and Space</i> , <b>2020</b> , 72, 106	2.9	4
37	Evidence of Alfvénic Poynting Flux as the Primary Driver of Auroral Motion During a Geomagnetic Substorm. <i>Journal of Geophysical Research: Space Physics</i> , <b>2021</b> , 126, e2020JA029019	2.6	4
36	Proton auroras during the transitional stage of substorm onset. <i>Earth, Planets and Space</i> , <b>2018</b> , 70,	2.9	4
35	Flow Velocity and Field-Aligned Current Associated With Field Line Resonance: SuperDARN Measurements. <i>Journal of Geophysical Research: Space Physics</i> , <b>2019</b> , 124, 4889-4904	2.6	3
34	Transient Solar Wind-Magnetosphere-Ionosphere Interaction Associated with Foreshock and Magnetosheath Transients and Localized Magnetopause Reconnection. <i>Geophysical Monograph Series</i> , <b>2020</b> , 39-53	1.1	3

33	Proxy Index Derived From All Sky Imagers for Space Weather Impact on GPS. <i>Space Weather</i> , <b>2018</b> , 16, 838-848	3.7	3
32	Constraining the Source Regions of Pulsating Auroras. <i>Geophysical Research Letters</i> , <b>2019</b> , 46, 10267-10273	4.3	3
31	Coherence in Auroral Fine Structure. <i>Geophysical Monograph Series</i> , <b>2013</b> , 81-90	1.1	3
30	Highly periodic stormtime activations observed by THEMIS prior to substorm onset. <i>Geophysical Research Letters</i> , <b>2008</b> , 35,	4.9	3
29	Observations of highly correlated near-simultaneous magnetic field perturbations at contraposed ground stations. <i>Journal of Geophysical Research</i> , <b>2001</b> , 106, 25857-25872		3
28	Characterizing the quiet time magnetic field at geostationary orbit. <i>Journal of Geophysical Research</i> , <b>1995</b> , 100, 23583		3
27	The effect of multiple scattering on the aspect sensitivity and polarization of radio auroral echoes. <i>Radio Science</i> , <b>1992</b> , 27, 169-188	1.4	3
26	Estimating Precipitating Energy Flux, Average Energy, and Hall Auroral Conductance From THEMIS All-Sky-Imagers With Focus on Mesoscales. <i>Frontiers in Physics</i> , <b>9</b> ,	3.9	3
25	The Apparent Motion of STEVE and the Picket Fence Phenomena. <i>Geophysical Research Letters</i> , <b>2020</b> , 47, e2020GL088980	4.9	3
24	Large-Scale Comparison of Polar Cap Ionospheric Velocities Measured by RISR-C, RISR-N, and SuperDARN. <i>Radio Science</i> , <b>2018</b> , 53, 624-639	1.4	3
23	Reply to comment by Rae et al. on Formation of substorm Pi2: A coherent response to auroral streamers and currents. <i>Journal of Geophysical Research: Space Physics</i> , <b>2013</b> , 118, 3497-3499	2.6	2
22	On the relation between auroral Scintillation and phase without amplitude Scintillation: Initial investigations <b>2014</b> ,		2
21	Radar Observations of Flows Leading to Longitudinal Expansion of Substorm Onset Over Alaska. <i>Journal of Geophysical Research: Space Physics</i> , <b>2021</b> , 126, e2020JA028148	2.6	2
20	Threshold speed for two-dimensional confinement of charged particles in certain axisymmetric magnetic fields. <i>Canadian Journal of Physics</i> , <b>2018</b> , 96, 519-523	1.1	2
19	A Strong Correlation Between Relativistic Electron Microbursts and Patchy Aurora. <i>Geophysical Research Letters</i> , <b>2021</b> , 48, e2021GL094696	4.9	2
18	THEMIS Ground Based Observatory System Design <b>2009</b> , 213-233		2
17	Dynamics Related to Plasmasheet Flow Bursts as Revealed from the Aurora. <i>Geophysical Monograph Series</i> , <b>2015</b> , 95-113	1.1	1
16	Observation of an inner magnetosphere electric field associated with a BBF-like flow and PBIs. <i>Annales Geophysicae</i> , <b>2009</b> , 27, 1489-1500	2	1

15	Oscillations of the equatorward boundary of the ion auroral oval [Radar observations]. <i>Journal of Geophysical Research</i> , <b>2008</b> , 113, n/a-n/a		1
14	Low-cost multi-band ground-based imaging of the aurora <b>2005</b> ,		1
13	Auroral meridian scanning photometer calibration using Jupiter. <i>Geoscientific Instrumentation, Methods and Data Systems</i> , <b>2016</b> , 5, 493-512	1.5	1
12	Slicing the Aurora <b>2016</b> ,		1
11	Future Atmosphere-Ionosphere-Magnetosphere Coupling Study Requirements. <i>Geophysical Monograph Series</i> , <b>2016</b> , 355-376	1.1	1
10	Radar Observations of Flows Leading to Substorm Onset Over Alaska. <i>Journal of Geophysical Research: Space Physics</i> , <b>2021</b> , 126, e2020JA028147	2.6	1
9	Effects of Ion Slippage in Earth's Ionosphere and the Plasma Sheet. <i>Geophysical Research Letters</i> , <b>2021</b> , 48, e2020GL091494	4.9	1
8	Neutral Wind Dynamics Preceding the STEVE Occurrence and Their Possible Preconditioning Role in STEVE Formation. <i>Journal of Geophysical Research: Space Physics</i> , <b>2021</b> , 126, e2020JA028505	2.6	0
7	Storm-time convection dynamics viewed from optical auroras. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , <b>2019</b> , 193, 105088	2	
6	North American Earth Science Megaproject Continuum, Part 3: New Canadian EON-ROSE Program. <i>Acta Geologica Sinica</i> , <b>2019</b> , 93, 12-13	0.7	
5	Data-derived optimization of sensitivity requirements for upcoming auroral imaging missions. <i>Journal of Geophysical Research: Space Physics</i> , <b>2017</b> , 122, 9358-9370	2.6	
4	Addressing the Question, What Is a Substorm?. <i>Eos</i> , <b>2013</b> , 94, 90-90	1.5	
3	A derivation of the gradient (?B) drift based on energy conservation. <i>American Journal of Physics</i> , <b>1999</b> , 67, 909-911	0.7	
2	MULTISCALE GEOSPACE PHYSICS IN CANADA <b>2005</b> , 487-508		
1	On the source region and orientations of nightside auroral arcs. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , <b>2020</b> , 204, 105288	2	