E L Spanswick

List of Publications by Year in Descending Order

86 papers	1,602 citations	22 h-index	34 g-index
89 ext. papers	1,849 ext. citations	2.9 avg, IF	4.23 L-index

#	Paper	IF	Citations
86	Study of Substorm-Related Auroral Absorption: Latitudinal Width and Factors Affecting the Peak Intensity of Energetic Electron Precipitation. *Journal of Geophysical Research: Space Physics*, **2021**, 126, e2021JA029779	2.6	0
85	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
84	A Strong Correlation Between Relativistic Electron Microbursts and Patchy Aurora. *Geophysical Research Letters*, **2021**, 48, e2021GL094696	4.9	2
83	Toward the Reconstruction of Substorm-Related Dynamical Pattern of the Radiowave Auroral Absorption. *Space Weather*, **2020**, 18, e2019SW002385	3.7	4
82	The Apparent Motion of STEVE and the Picket Fence Phenomena. *Geophysical Research Letters*, **2020**, 47, e2020GL088980	4.9	3
81	Characterizing Auroral-Zone Absorption Based on Global Kp and Regional Geomagnetic Hourly Range Indices. *Space Weather*, **2020**, 18, e2020SW002572	3.7	3
80	e-POP and Red Line Optical Observations of Alfvﬁic Auroras. *Journal of Geophysical Research: Space Physics*, **2019**, 124, 4672-4696	2.6	9
79	Storm-time convection dynamics viewed from optical auroras. *Journal of Atmospheric and Solar-Terrestrial Physics*, **2019**, 193, 105088	2	
78	Responses of Different Types of Pulsating Aurora in Cosmic Noise Absorption. *Geophysical Research Letters*, **2019**, 46, 5717-5724	4.9	11
77	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
76	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
75	Optical Spectra and Emission Altitudes of Double-Layer STEVE: A Case Study. *Geophysical Research Letters*, **2019**, 46, 13630-13639	4.9	12
74	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
73	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
72	Proxy Index Derived From All Sky Imagers for Space Weather Impact on GPS. *Space Weather*, **2018**, 16, 838-848	3.7	3
71	Threshold speed for two-dimensional confinement of charged particles in certain axisymmetric magnetic fields. *Canadian Journal of Physics*, **2018**, 96, 519-523	1.1	2
70	A Statistical Analysis of STEVE. *Journal of Geophysical Research: Space Physics*, **2018**, 123, 9893-9905	2.6	33

69	Proton auroras during the transitional stage of substorm onset. *Earth, Planets and Space*, **2018**, 70,	2.9	4
68	Large-Scale Comparison of Polar Cap Ionospheric Velocities Measured by RISR-C, RISR-N, and SuperDARN. *Radio Science*, **2018**, 53, 624-639	1.4	3
67	Particle energization by a substorm dipolarization. *Journal of Geophysical Research: Space Physics*, **2017**, 122, 349-367	2.6	8
66	Premidnight Preponderance of Dispersionless Ion and Electron Injections. *Geophysical Monograph Series*, **2017**, 171-185	1.1	5
65	Identifying the 630´nm auroral arc emission height: A comparison of the triangulation, FAC profile, and electron density methods. *Journal of Geophysical Research: Space Physics*, **2017**, 122, 8181-8197	2.6	12
64	The Magnetospheric Source Region of the Bright Proton Aurora. *Geophysical Research Letters*, **2017** , 44, 10,094-10,099	4.9	5
63	GPS phase scintillation and auroral electrojet currents during geomagnetic storms of March 17, 2013 and 2015 **2017**,		1
62	A statistical study of the motion of pulsating aurora patches: using the THEMIS All-Sky Imager. *Annales Geophysicae*, **2017**, 35, 217-225	2	15
61	On the 630 nm red-line pulsating aurora: Red-line Emission Geospace Observatory observations and model simulations. *Journal of Geophysical Research: Space Physics*, **2016**, 121, 7988-8012	2.6	19
60	GPS phase scintillation at high latitudes during the geomagnetic storm of 17–18 March 2015. *Journal of Geophysical Research: Space Physics*, **2016**, 121, 10,448	2.6	37
59	Selection of FUV auroral imagers for satellite missions. *Journal of Geophysical Research: Space Physics*, **2016**, 121, 10,019-10,031	2.6	4
58	First observations from the RISR-C incoherent scatter radar. *Radio Science*, **2016**, 51, 1645-1659	1.4	17
57	GPS phase scintillation at high latitudes during geomagnetic storms of 7–17 March 2012 —Part 1: The North American sector. *Annales Geophysicae*, **2015**, 33, 637-656	2	16
56	Low-energy ion precipitation structures associated with pulsating auroral patches. *Journal of Geophysical Research: Space Physics*, **2015**, 120, 5408-5431	2.6	17
55	Correlated Pc4–5 ULF waves, whistler-mode chorus, and pulsating aurora observed by the Van Allen Probes and ground-based systems. *Journal of Geophysical Research: Space Physics*, **2015**, 120, 8749-8761	2.6	35
54	Characterization of the energy-dependent response of riometer absorption. *Journal of Geophysical Research: Space Physics*, **2015**, 120, 615-631	2.6	10
53	Using patchy pulsating aurora to remote sense magnetospheric convection. *Geophysical Research Letters*, **2015**, 42, 5083-5089	4.9	21
52	Swarm observations of field-aligned currents associated with pulsating auroral patches. *Journal of Geophysical Research: Space Physics*, **2015**, 120, 9484-9499	2.6	18

51	Dynamics of the correlation between polar cap radio absorption and solar energetic proton fluxes in the interplanetary medium. *Journal of Geophysical Research: Space Physics*, **2014**, 119, 1627-1642	2.6	4
50	A survey of quiet auroral arc orientation and the effects of the interplanetary magnetic field. *Journal of Geophysical Research: Space Physics*, **2014**, 119, 2550-2562	2.6	16
49	Auroral fragmentation into patches. *Journal of Geophysical Research: Space Physics*, **2014**, 119, 8249-8261	2.6	18
48	A statistical approach to determining energetic outer radiation belt electron precipitation fluxes. *Journal of Geophysical Research: Space Physics*, **2014**, 119, 3961-3978	2.6	10
47	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
46	Auroral spectral estimation with wide-band color mosaic CCDs. *Geoscientific Instrumentation, Methods and Data Systems*, **2014**, 3, 71-94	1.5	4
45	Substorm Associated Spikes in High Energy Particle Precipitation. *Geophysical Monograph Series*, **2013**, 227-236	1.1	7
44	Auroral wave structures and ballooning instabilities in the plasma sheet. *Journal of Geophysical Research: Space Physics*, **2013**, 118, 6319-6326	2.6	11
43	Multiprobe estimation of field line curvature radius in the equatorial magnetosphere and the use of proton precipitations in magnetosphere-ionosphere mapping. *Journal of Geophysical Research: Space Physics*, **2013**, 118, 4924-4945	2.6	9
42	Energetic electron precipitation characteristics observed from Antarctica during a flux dropout event. *Journal of Geophysical Research: Space Physics*, **2013**, 118, 6921-6935	2.6	9
41	GPS phase scintillation and proxy index at high latitudes during a moderate geomagnetic storm. *Annales Geophysicae*, **2013**, 31, 805-816	2	42
40	Magnetospheric Dynamics and the Proton Aurora. *Geophysical Monograph Series*, **2013**, 365-378	1.1	16
39	Persistent, widespread pulsating aurora: A case study. *Journal of Geophysical Research: Space Physics*, **2013**, 118, 2998-3006	2.6	31
38	Quasi-parallel electron beams and their possible application in inferring the auroral arc's root in the magnetosphere. *Annales Geophysicae*, **2013**, 31, 1077-1101	2	5
37	An interhemispheric comparison of GPS phase scintillation with auroral emission observed at the South Pole and from the DMSP satellite. *Annals of Geophysics*, **2013**, 56,	1.1	8
36	If substorm onset triggers tail reconnection, what triggers substorm onset?. *Journal of Geophysical Research*, **2012**, 117, n/a-n/a		19
35	Efficient diffuse auroral electron scattering by electrostatic electron cyclotron harmonic waves in the outer magnetosphere: A detailed case study. *Journal of Geophysical Research*, **2012**, 117,		72
34	Visualization of ion cyclotron wave and particle interactions in the inner magnetosphere via THEMIS-ASI observations. *Journal of Geophysical Research*, **2012**, 117, n/a-n/a		16

33	GPS TEC technique for observation of the evolution of substorm particle precipitation. *Journal of Geophysical Research*, **2011**, 116, n/a-n/a		33
32	Modeling the relationship between substorm dipolarization and dispersionless injection. *Journal of Geophysical Research*, **2011**, 116, n/a-n/a		6
31	Large-scale aspects and temporal evolution of pulsating aurora. *Journal of Geophysical Research*, **2011**, 116,		35
30	Ionospheric convection signatures of tail fast flows during substorms and Poleward Boundary Intensifications (PBI). *Geophysical Research Letters*, **2011**, 38, n/a-n/a	4.9	14
29	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
28	Fast earthward flows, electron cyclotron harmonic waves, and diffuse auroras: Conjunctive observations and a synthesized scenario. *Journal of Geophysical Research*, **2011**, 116, n/a-n/a		33
27	Multi-instrument observations of soft electron precipitation and its association with magnetospheric flows. *Journal of Geophysical Research*, **2011**, 116, n/a-n/a		12
26	Interhemispheric comparison of GPS phase scintillation at high latitudes during the magnetic-cloud-induced geomagnetic storm of 5 April 2010. *Annales Geophysicae*, **2011**, 29, 2287-2304	2	37
25	GPS TEC, scintillation and cycle slips observed at high latitudes during solar minimum. *Annales Geophysicae*, **2010**, 28, 1307-1316	2	82
24	Injection region propagation outside of geosynchronous orbit. *Journal of Geophysical Research*, **2010**, 115, n/a-n/a		17
23	THEMIS observations of electron cyclotron harmonic emissions, ULF waves, and pulsating auroras. *Journal of Geophysical Research*, **2010**, 115, n/a-n/a		42
22	Energetic outer radiation belt electron precipitation during recurrent solar activity. *Journal of Geophysical Research*, **2010**, 115, n/a-n/a		14
21	A transient narrow poleward extrusion from the diffuse aurora and the concurrent magnetotail activity. *Journal of Geophysical Research*, **2010**, 115, n/a-n/a		16
20	Longitudinal development of a substorm brightening arc. *Annales Geophysicae*, **2009**, 27, 1935-1940	2	19
19	Global observations of substorm injection region evolution: 27 August 2001. *Annales Geophysicae*, **2009**, 27, 2019-2025	2	14
18	Longitudinally propagating arc wave in the pre-onset optical aurora. *Geophysical Research Letters*, **2009**, 36,	4.9	49
17	Equatorward moving auroral signatures of a flow burst observed prior to auroral onset. *Geophysical Research Letters*, **2009**, 36,	4.9	57
16	THEMIS ground-space observations during the development of auroral spirals. *Annales Geophysicae*, **2009**, 27, 4317-4332	2	14

15	In-situ observation of ULF wave activities associated with substorm expansion phase onset and current disruption. *Annales Geophysicae*, **2009**, 27, 2191-2204	2	17
14	Collective dynamics of bursty particle precipitation initiating in the inner and outer plasma sheet. *Annales Geophysicae*, **2009**, 27, 745-753	2	9
13	Simultaneous THEMIS in situ and auroral observations of a small substorm. *Geophysical Research Letters*, **2008**, 35,	4.9	78
12	Scale-free and scale-dependent modes of energy release dynamics in the nighttime magnetosphere. *Geophysical Research Letters*, **2008**, 35,	4.9	19
11	AKR breakup and auroral particle acceleration at substorm onset. *Journal of Geophysical Research*, **2008**, 113, n/a-n/a		16
10	Ground based identification of dispersionless electron injections. *Geophysical Research Letters*, **2007**, 34,	4.9	36
9	Remote-sensing magnetospheric dynamics with riometers: Observation and theory. *Journal of Geophysical Research*, **2007**, 112, n/a-n/a		8
8	EL - a possible indicator to monitor the magnetic field stretching at global scale during substorm expansive phase: Statistical study. *Journal of Geophysical Research*, **2007**, 112, n/a-n/a		11
7	Azimuthal structures of substorm electron injection and their signatures in riometer observations. *Journal of Geophysical Research*, **2007**, 112, n/a-n/a		19
6	On the equatorward motion and fading of proton aurora during substorm growth phase. *Journal of Geophysical Research*, **2007**, 112, n/a-n/a		9
5	Multiple field line resonances: Optical, magnetic and absorption signatures. *Planetary and Space Science*, **2007**, 55, 701-713	2	20
4	Global auroral imaging in the ILWS era. *Advances in Space Research*, **2007**, 40, 409-418	2.4	4
3	Meso-scale aurora within the expansion phase bulge. *Annales Geophysicae*, **2006**, 24, 2209-2218	2	5
2	Characteristics of night-time absorption spike events. *Annales Geophysicae*, **2006**, 24, 1887-1904	2	12
1	Pc5 modulation of high energy electron precipitation: particle interaction regions and scattering efficiency. *Annales Geophysicae*, **2005**, 23, 1533-1542	2	38