William K Peterson

List of Publications by Year in Descending Order

233 papers	9,782 citations	52 h-index	90 g-index
251 ext. papers	10,284 ext. citations	3.7 avg, IF	5.14 L-index

#	Paper	IF	Citations
233	Ionospheric Ion Acceleration and Transport. *Geophysical Monograph Series*, **2021**, 207-217	1.1	1
232	Subsolar Electron Temperatures in the Lower Martian Ionosphere. *Journal of Geophysical Research: Space Physics*, **2020**, 125, e2019JA027597	2.6	4
231	Ambipolar Electric Field in the Martian Ionosphere: MAVEN Measurements. *Journal of Geophysical Research: Space Physics*, **2019**, 124, 4518-4524	2.6	11
230	Electron Temperature Response to Solar Forcing in the Low-Latitude Martian Ionosphere. *Journal of Geophysical Research E: Planets*, **2019**, 124, 3082-3094	4.1	5
229	Correlations between enhanced electron temperatures and electric field wave power in the Martian ionosphere. *Geophysical Research Letters*, **2018**, 45, 493-501	4.9	8
228	Flares at Earth and Mars: An Ionospheric Escape Mechanism?. *Space Weather*, **2018**, 16, 1042-1056	3.7	5
227	Martian Electron Temperatures in the Subsolar Region: MAVEN Observations Compared to a One-Dimensional Model. *Journal of Geophysical Research: Space Physics*, **2018**, 123, 5960-5973	2.6	19
226	The Mars Topside Ionosphere Response to the X8.2 Solar Flare of 10 September 2017. *Geophysical Research Letters*, **2018**, 45, 8005-8013	4.9	24
225	Loss of the Martian atmosphere to space: Present-day loss rates determined from MAVEN observations and integrated loss through time. *Icarus*, **2018**, 315, 146-157	3.8	136
224	MAVEN Observations of Solar Wind-Driven Magnetosonic Waves Heating the Martian Dayside Ionosphere. *Journal of Geophysical Research: Space Physics*, **2018**, 123, 4129-4149	2.6	25
223	On the occurrence of magnetic reconnection equatorward of the cusps at the Earth's magnetopause during northward IMF conditions. *Journal of Geophysical Research: Space Physics*, **2017**, 122, 605-617	2.6	10
222	Ion Heating in the Martian Ionosphere. *Journal of Geophysical Research: Space Physics*, **2017**, 122, 10,612-10,625	2.6	16
221	The electric wind of Venus: A global and persistent □olar wind□like ambipolar electric field sufficient for the direct escape of heavy ionospheric ions. *Geophysical Research Letters*, **2016**, 43, 5926-5934	4.9	24
220	Photoelectrons and solar ionizing radiation at Mars: Predictions versus MAVEN observations. *Journal of Geophysical Research: Space Physics*, **2016**, 121, 8859-8870	2.6	29
219	Measurements of Ion Outflows from the Earth's Ionosphere. *Geophysical Monograph Series*, **2016**, 19-31	1.1	0
218	Electron conic distributions produced by solar ionizing radiation in planetary atmospheres. *Advances in Space Research*, **2015**, 55, 2566-2572	2.4	1
217	The Mars Atmosphere and Volatile Evolution (MAVEN) Mission. *Space Science Reviews*, **2015**, 195, 3-48	7.5	405

216	MAVEN observations of the response of Mars to an interplanetary coronal mass ejection. *Science*, **2015**, 350, aad0210	33.3	131
215	Early MAVEN Deep Dip campaign reveals thermosphere and ionosphere variability. *Science*, **2015**, 350, aad0459	33.3	77
214	Comparison of different solar irradiance models for the superthermal electron transport model for Mars. *Planetary and Space Science*, **2015**, 119, 62-68	2	21
213	Model insights into energetic photoelectrons measured at Mars by MAVEN. *Geophysical Research Letters*, **2015**, 42, 8894-8900	4.9	22
212	Electric Mars: The first direct measurement of an upper limit for the Martian polar wind electric potential. *Geophysical Research Letters*, **2015**, 42, 9128-9134	4.9	28
211	Neutral density response to solar flares at Mars. *Geophysical Research Letters*, **2015**, 42, 8986-8992	4.9	21
210	An assessment of the role of soft electron precipitation in global ion upwelling. *Journal of Geophysical Research: Space Physics*, **2014**, 119, 7665-7678	2.6	5
209	Field Line Resonances, Auroral Arcs, and Substorm Intensifications. *Geophysical Monograph Series*, **2013**, 161-168	1.1	1
208	The Role of Quiet Time Ionospheric Plasma in the Storm Time Inner Magnetosphere. *Geophysical Monograph Series*, **2013**, 329-340	1.1	
207	Convection of Plasmaspheric Plasma into the Outer Magnetosphere and Boundary Layer Region: Initial Results. *Geophysical Monograph Series*, **2013**, 45-49	1.1	
206	Transverse Auroral Ion Energization Observed on De-1 With Simultaneous Plasma Wave and Ion Composition Measurements. *Geophysical Monograph Series*, **2013**, 43-49	1.1	4
205	Day-Night Asymmetry of Polar Outflow Due to the Kinetic Effects of Anisotropic Photoelectrons. *Geophysical Monograph Series*, **2013**, 97-106	1.1	
204	On the High- and Low-Altitude Limits of the Auroral Electric Field Region. *Geophysical Monograph Series*, **2013**, 143-154	1.1	22
203	Accelerated Auroral and Polar-Cap Ions : Outflow at De-1 Altitudes. *Geophysical Monograph Series*, **2013**, 72-76	1.1	6
202	Dayside Electrodynamics Observed by Polar with Northward IMF. *Geophysical Monograph Series*, **2013**, 13-23	1.1	
201	POLAR Observations of properties of H+ and O+ Conics in the Cusp Near ~5300 km Altitude. *Geophysical Monograph Series*, **2013**, 107-113	1.1	
200	Recent Developments of Ion Acceleration in the Auroral Zone. *Geophysical Monograph Series*, **2013**, 115-128	1.1	
199	Modeling Magnetotail Ion Distributions with Global Magnetohydrodynamic and Ion Trajectory Calculations. *Geophysical Monograph Series*, **2013**, 291-296	1.1	2

198	Determination of Particle Sources for a Geotail Distribution Function Observed on May 23, 1995. *Geophysical Monograph Series*, **2013**, 297-312	1.1	4
197	Effects of Solar Cycle on Auroral Particle Acceleration. *Geophysical Monograph Series*, **2013**, 219-226	1.1	6
196	Correlations between variations in solar EUV and soft X-ray irradiance and photoelectron energy spectra observed on Mars and Earth. *Journal of Geophysical Research: Space Physics*, **2013**, 118, 7338-7347	2.6	11
195	Comparison of Photoelectron Theory Against Observations. *Geophysical Monograph Series*, **2013**, 333-341	1.1	
194	Under What Conditions Will Ionospheric Molecular Ion Outflow Occur?. *Geophysical Monograph Series*, **2013**, 85-95	1.1	5
193	Sources of plasma in the high altitude cusp. *Journal of Atmospheric and Solar-Terrestrial Physics*, **2012**, 87-88, 1-10	2	3
192	A global comparison of O+ upward flows at 850 km and outflow rates at 6000 km during nonstorm times. *Journal of Geophysical Research*, **2012**, 117, n/a-n/a		10
191	Dawnward shift of the dayside O+ outflow distribution: The importance of field line history in O+ escape from the ionosphere. *Journal of Geophysical Research*, **2012**, 117, n/a-n/a		10
190	Transport of thermal-energy ionospheric oxygen (O+) ions between the ionosphere and the plasma sheet and ring current at quiet times preceding magnetic storms. *Journal of Geophysical Research*, **2012**, 117, n/a-n/a		31
189	Solar EUV and XUV energy input to thermosphere on solar rotation time scales derived from photoelectron observations. *Journal of Geophysical Research*, **2012**, 117, n/a-n/a		20
188	Influences of the Ionosphere, Thermosphere and Magnetosphere on Ion Outflows **2011**, 283-314		24
187	Cusp energetic ions as tracers for particle transport into the magnetosphere. *Journal of Geophysical Research*, **2010**, 115, n/a-n/a		11
186	Geophysical Research Letters: New Policies Improve Top-Cited Geosciences Journal. *Eos*, **2010**, 91, 337-337	1.3	
185	Vertical thermal O+ flows at 850 km in dynamic auroral boundary coordinates. *Journal of Geophysical Research*, **2010**, 115, n/a-n/a		30
184	Open Access to Digital Information: Opportunities and Challenges Identified During the Electronic Geophysical Year. *Data Science Journal*, **2010**, 8, S108-S112	2	3
183	Geomagnetic activity dependence of O+ in transit from the ionosphere. *Journal of Atmospheric and Solar-Terrestrial Physics*, **2009**, 71, 1623-1629	2	22
182	Photoelectrons as a tool to evaluate spectral variations in solar EUV irradiance over solar cycle timescales. *Journal of Geophysical Research*, **2009**, 114, n/a-n/a		15
181	Model/data comparisons of ionospheric outflow as a function of invariant latitude and magnetic local time. *Journal of Geophysical Research*, **2008**, 113, n/a-n/a		15

180	Informatics and the 2007–2008 Electronic Geophysical Year. *Eos*, **2008**, 89, 485-486	1.5	17
179	Temporal and spectral variations of the photoelectron flux and solar irradiance during an X class solar flare. *Geophysical Research Letters*, **2008**, 35, n/a-n/a	4.9	6
178	Solar-minimum quiet time ion energization and outflow in dynamic boundary related coordinates. *Journal of Geophysical Research*, **2008**, 113, n/a-n/a		47
177	Measured and modeled backscatter of ionospheric photoelectron fluxes. *Journal of Geophysical Research*, **2008**, 113, n/a-n/a		25
176	Chromospheric heating by the Farley-Buneman instability. *Astronomy and Astrophysics*, **2008**, 480, 839-846	5.1	36
175	XUV Photometer System (XPS): Improved Solar Irradiance Algorithm Using CHIANTI Spectral Models. *Solar Physics*, **2008**, 250, 235-267	2.6	53
174	Photoelectron flux variations observed from the FAST satellite. *Advances in Space Research*, **2008**, 42, 947-956	2.4	10
173	History of kinetic polar wind models and early observations. *Journal of Atmospheric and Solar-Terrestrial Physics*, **2007**, 69, 1901-1935	2	24
172	The polar wind: Recent observations. *Journal of Atmospheric and Solar-Terrestrial Physics*, **2007**, 69, 1936-1983	2	104
171	HEUVAC: A new high resolution solar EUV proxy model. *Advances in Space Research*, **2006**, 37, 315-322	2.4	92
170	Quiet time solar illumination effects on the fluxes and characteristic energies of ionospheric outflow. *Journal of Geophysical Research*, **2006**, 111,		34
169	Role of plasma waves in Mars' atmospheric loss. *Geophysical Research Letters*, **2006**, 33,	4.9	63
168	Tracing the location of the reconnection site from the northern and southern cusps. *Journal of Geophysical Research*, **2006**, 111,		7
167	Estimates of the suprathermal O+ outflow characteristic energy and relative location in the auroral oval. *Geophysical Research Letters*, **2005**, 32,	4.9	26
166	Plasma sheet and (nonstorm) ring current formation from solar and polar wind sources. *Journal of Geophysical Research*, **2005**, 110,		37
165	Spatial and Temporal Cusp Structures Observed by Multiple Spacecraft and Ground Based Observations. *Surveys in Geophysics*, **2005**, 26, 281-305	7.6	8
164	Latitude-energy structure of multiple ion beamlets in Polar/TIMAS data in plasma sheet boundary layer and boundary plasma sheet below 6 <i>R_E</i> radial distance: basic properties and statistical analysis. *Annales Geophysicae*, **2005**, 23, 867-876	2	3
163	Spatial and Temporal Cusp Structures Observed by Multiple Spacecraft and Ground Based Observations **2005**, 281-305		

162	Ion shell distributions as free energy source for plasma waves on auroral field lines mapping to plasma sheet boundary layer. *Annales Geophysicae*, **2004**, 22, 2115-2133	2	4
161	Dynamic coordinates for auroral ion outflow. *Journal of Geophysical Research*, **2004**, 109,		31
160	Solar wind control of Earth's H+ and O+ outflow rates in the 15-eV to 33-keV energy range. *Journal of Geophysical Research*, **2004**, 109,		59
159	The occurrence frequency of upward ion beams in the auroral zone as a function of altitude using Polar/TIMAS and DE-1/EICS data. *Annales Geophysicae*, **2003**, 21, 2059-2072	2	4
158	Generation of Bernstein waves by ion shell distributions in the auroral region. *Annales Geophysicae*, **2003**, 21, 881-891	2	16
157	Large amplitude solitary waves in and near the Earth's magnetosphere, magnetopause and bow shock: Polar and Cluster observations. *Nonlinear Processes in Geophysics*, **2003**, 10, 13-26	2.9	59
156	Polar observations of transverse magnetic pulsations initiated at substorm onset in the high-latitude plasma sheet. *Journal of Geophysical Research*, **2003**, 108,		4
155	Simulation of energetic particle injections associated with a substorm on August 27, 2001. *Geophysical Research Letters*, **2003**, 30, 4-1-4-4	4.9	81
154	Reply to comment on "Origins of energetic ions in the cusp" by R. Sheldon, J. Chen, and T. A. Fritz. *Journal of Geophysical Research*, **2003**, 108,		15
153	Solar extreme ultraviolet variability of the X-class flare on 21 April 2002 and the terrestrial photoelectron response. *Space Weather*, **2003**, 1, n/a-n/a	3.7	29
152	Responses of the open–closed field line boundary in the evening sector to IMF changes: A source mechanism for Sun-aligned arcs. *Journal of Geophysical Research*, **2003**, 108, SMP 4-1		15
151	Investigation into the spatial and temporal coherence of ionospheric outflow on January 9–12, 1997. *Journal of Atmospheric and Solar-Terrestrial Physics*, **2002**, 64, 1659-1666	2	19
150	Timing of magnetic reconnection initiation during a global magnetospheric substorm onset. *Geophysical Research Letters*, **2002**, 29, 43-1-43-4	4.9	83
149	Outflow from the ionosphere in the vicinity of the cusp. *Journal of Geophysical Research*, **2002**, 107, SMP 13-1-SMP 13-9		4
148	Temporal versus spatial interpretation of cusp ion structures observed by two spacecraft. *Journal of Geophysical Research*, **2002**, 107, SMP 9-1		30
147	Observations of two types of Pc 1–2 pulsations in the outer dayside magnetosphere. *Journal of Geophysical Research*, **2002**, 107, SMP 20-1-SMP 20-20		80
146	Spatial features observed in the cusp under steady solar wind conditions. *Journal of Geophysical Research*, **2002**, 107, SMP 10-1		32
145	Polar observations of solitary waves at high and low altitudes and comparison to theory. *Advances in Space Research*, **2001**, 28, 1631-1641	2.4	20

144	The Time-of-Flight Energy, Angle, Mass Spectrograph (Teams) Experiment for Fast. *Space Science Reviews*, **2001**, 98, 197-219	7.5	22
143	Reconciliation of the substorm onset determined on the ground and at the Polar spacecraft. *Geophysical Research Letters*, **2001**, 28, 107-110	4.9	4
142	A study of inverted-V auroral acceleration mechanisms using Polar/Fast Auroral Snapshot conjunctions. *Journal of Geophysical Research*, **2001**, 106, 18995-19011		9
141	Cusp and magnetopause locations in global MHD simulation. *Journal of Geophysical Research*, **2001**, 106, 29435-29450		28
140	Observed trends in auroral zone ion mode solitary wave structure characteristics using data from Polar. *Journal of Geophysical Research*, **2001**, 106, 19013-19021		50
139	Observation of the magnetospheric flash and its implications relative to solar-wind/magnetospheric coupling: A multisatellite event analysis. *Journal of Geophysical Research*, **2001**, 106, 6097-6122		21
138	Origins of energetic ions in the cusp. *Journal of Geophysical Research*, **2001**, 106, 5967-5976		44
137	Polar/Toroidal Imaging Mass-Angle Spectrograph observations of suprathermal ion outflow during solar minimum conditions. *Journal of Geophysical Research*, **2001**, 106, 6059-6066		46
136	Polar/Toroidal Imaging Mass-Angle Spectrograph survey of earthward field-aligned proton flows from the near-midnight tail. *Journal of Geophysical Research*, **2001**, 106, 5859-5871		16
135	Plasma sheet dynamics observed by the Polar spacecraft in association with substorm onsets. *Journal of Geophysical Research*, **2001**, 106, 19117-19130		9
134	O+ observations in the cusp: Implications for dayside magnetic field topology. *Journal of Geophysical Research*, **2001**, 106, 5977-5986		11
133	Charge neutrality and ion conic distributions at the equatorward electron edge of the midaltitude cusp. *Journal of Geophysical Research*, **2001**, 106, 21095-21108		4
132	Polar observations and model predictions during May 4, 1998, magnetopause, magnetosheath, and bow shock crossings. *Journal of Geophysical Research*, **2001**, 106, 18927-18942		5
131	Wave power studies of cusp crossings with the Polar satellite. *Journal of Geophysical Research*, **2001**, 106, 5987-6006		10
130	Acceleration of ionospheric O+ ions on open field lines in the low-latitude boundary layer and the cusp region.. *Journal of Geophysical Research*, **2001**, 106, 29611-29618		3
129	Magnetic local time dependency on cusp ion velocity dispersions in the mid-altitude cusp. *Geophysical Research Letters*, **2001**, 28, 4057-4060	4.9	3
128	Fast Auroral Snapshot observations of cusp electron and ion structures. *Journal of Geophysical Research*, **2001**, 106, 25595-25600		21
127	Electrodynamics of the poleward auroral border observed by Polar during a substorm on April 22, 1998. *Journal of Geophysical Research*, **2001**, 106, 5927-5943		15

126	On the mass dependence of transverse ion acceleration by broad-band extremely low frequency waves. *Physics and Chemistry of the Earth, Part C: Solar, Terrestrial and Planetary Science*, **2001**, 26, 161-163		3
125	The Time-of-Flight Energy, Angle, Mass Spectrograph (Teams) Experiment for Fast **2001**, 197-219		8
124	A statistical comparison of the outflow of , NO+ and molecular ions with that of atomic O+ ions using Polar/TIMAS observations. *Journal of Atmospheric and Solar-Terrestrial Physics*, **2000**, 62, 477-483	2	6
123	Polar/TIMAS statistical results on the outflow of molecular ions from earth at solar minimum. *Advances in Space Research*, **2000**, 25, 2417-2420	2.4	3
122	Magnetospheric response to the arrival of the shock wave in front of the magnetic cloud of January 10, 1997. *Advances in Space Research*, **2000**, 25, 1401-1404	2.4	2
121	Observations of plasma entry into the magnetosphere at late magnetic local times. *Advances in Space Research*, **2000**, 25, 1617-1622	2.4	2
120	Cusp field-aligned currents and ion outflows. *Journal of Geophysical Research*, **2000**, 105, 21129-21141		65
119	Toroidal ion distributions observed at high altitudes equatorward of the cusp. *Geophysical Research Letters*, **2000**, 27, 469-472	4.9	15
118	Plasmaspheric depletion and refilling associated with the September 25, 1998 magnetic storm observed by ground magnetometers at L = 2. *Geophysical Research Letters*, **2000**, 27, 633-636	4.9	55
117	Observations of centrifugal acceleration during compression of magnetosphere. *Geophysical Research Letters*, **2000**, 27, 915-918	4.9	24
116	Multiple discrete-energy ion features in the inner magnetosphere: Observations and simulations. *Geophysical Research Letters*, **2000**, 27, 1447-1450	4.9	27
115	Observations of traveling Pc5 waves and their relation to the magnetic cloud event of January 1997. *Journal of Geophysical Research*, **2000**, 105, 5441-5452		15
114	Energetic magnetosheath ions connected to the Earth's bow shock: Possible source of cusp energetic ions. *Journal of Geophysical Research*, **2000**, 105, 5471-5488		32
113	Polar spacecraft based comparisons of intense electric fields and Poynting flux near and within the plasma sheet-tail lobe boundary to UVI images: An energy source for the aurora. *Journal of Geophysical Research*, **2000**, 105, 18675-18692		218
112	A simple model of complex cusp ion dispersions during intervals of northward interplanetary magnetic field. *Geophysical Research Letters*, **2000**, 27, 3587-3590	4.9	3
111	Plasma waves observed during cusp energetic particle events and their correlation with Polar and akebono satellite and ground data. *Advances in Space Research*, **1999**, 24, 23-33	2.4	27
110	Simulation of off-equatorial ring current ion spectra measured by Polar for a moderate storm at solar minimum. *Journal of Geophysical Research*, **1999**, 104, 429-436		31
109	Comparisons of Polar satellite observations of solitary wave velocities in the plasma sheet boundary and the high altitude cusp to those in the auroral zone. *Geophysical Research Letters*, **1999**, 26, 425-428	4.9	153

108	Comment on "Correlation of cusp MeV helium with turbulent ULF power spectra and its implications" *Geophysical Research Letters*, **1999**, 26, 1361-1362	4.9	17
107	The source population for the cusp and cleft/LLBL for southward IMF. *Geophysical Research Letters*, **1999**, 26, 1665-1668	4.9	10
106	Sudden compression of the outer magnetosphere associated with an ionospheric mass ejection. *Geophysical Research Letters*, **1999**, 26, 2343-2346	4.9	32
105	Ionospheric mass ejection in response to a CME. *Geophysical Research Letters*, **1999**, 26, 2339-2342	4.9	124
104	Observations of polar cap arcs on FAST. *Journal of Geophysical Research*, **1999**, 104, 12669-12681		22
103	On spatial and temporal structures in the cusp. *Journal of Geophysical Research*, **1999**, 104, 28411-28421		25
102	The seasonal variation of auroral ion beams. *Geophysical Research Letters*, **1998**, 25, 4071-4074	4.9	50
101	A comparison of a model for the theta aurora with observations from Polar, Wind, and SuperDARN. *Journal of Geophysical Research*, **1998**, 103, 17367-17390		47
100	Polar observations of convection with northward interplanetary magnetic field at dayside high latitudes. *Journal of Geophysical Research*, **1998**, 103, 29-45		23
99	Relationship of topside ionospheric ion outflows to auroral forms and precipitation, plasma waves, and convection observed by Polar. *Journal of Geophysical Research*, **1998**, 103, 17391-17410		12
98	Broadband plasma waves observed in the polar cap boundary layer: Polar. *Journal of Geophysical Research*, **1998**, 103, 17351-17366		21
97	FAST observations of preferentially accelerated He+ in association with auroral electromagnetic ion cyclotron waves. *Geophysical Research Letters*, **1998**, 25, 2049-2052	4.9	38
96	FAST/TEAMS observations of charge exchange signatures in ions mirroring at low altitudes. *Geophysical Research Letters*, **1998**, 25, 2085-2088	4.9	19
95	Species dependent energies in upward directed ion beams over auroral arcs as observed with FAST TEAMS. *Geophysical Research Letters*, **1998**, 25, 2029-2032	4.9	36
94	Characteristics of electromagnetic proton cyclotron waves along auroral field lines observed by FAST in regions of upward current. *Geophysical Research Letters*, **1998**, 25, 2057-2060	4.9	17
93	FAST satellite wave observations in the AKR source region. *Geophysical Research Letters*, **1998**, 25, 2061-2064	4.9	158
92	FAST satellite observations of electric field structures in the auroral zone. *Geophysical Research Letters*, **1998**, 25, 2025-2028	4.9	218
91	FAST satellite observations of large-amplitude solitary structures. *Geophysical Research Letters*, **1998**, 25, 2041-2044	4.9	410

90	Spatial structure and gradients of ion beams observed by FAST. *Geophysical Research Letters*, **1998**, 25, 2021-2024	4.9	72
89	FAST observations of VLF waves in the auroral zone: Evidence of very low plasma densities. *Geophysical Research Letters*, **1998**, 25, 2065-2068	4.9	96
88	Simultaneous observations of solar wind plasma entry from FAST and POLAR. *Geophysical Research Letters*, **1998**, 25, 2081-2084	4.9	6
87	FAST observations in the downward auroral current region: Energetic upgoing electron beams, parallel potential drops, and ion heating. *Geophysical Research Letters*, **1998**, 25, 2017-2020	4.9	236
86	Electron modulation and ion cyclotron waves observed by FAST. *Geophysical Research Letters*, **1998**, 25, 2045-2048	4.9	55
85	Initial FAST observations of acceleration processes in the cusp. *Geophysical Research Letters*, **1998**, 25, 2037-2040	4.9	29
84	Overlapping ion populations in the cusp: polar/TIMAS results. *Geophysical Research Letters*, **1998**, 25, 1621-1624	4.9	9
83	The auroral current circuit and field-aligned currents observed by FAST. *Geophysical Research Letters*, **1998**, 25, 2033-2036	4.9	71
82	The January 10, 1997 auroral hot spot, horseshoe aurora and first substorm: A CME loop?. *Geophysical Research Letters*, **1998**, 25, 3047-3050	4.9	35
81	Cusp energetic ions: A bow shock source. *Geophysical Research Letters*, **1998**, 25, 3729-3732	4.9	50
80	Imaging the Plasma Sheet with Energetic Ions from the POLAR Satellite. *Astrophysics and Space Science Library*, **1998**, 813-816	0.3	5
79	A CME Loop and the January 10, 1997 First Substorm. *Astrophysics and Space Science Library*, **1998**, 309-314	0.3	3
78	Polar Observations of Cusp Electrodynamics: Evolution from 2- to 4-Cell Convection Patterns **1998**, 157-172		1
77	Solar Wind He2+ and H+ Distributions in the Cusp for Southward IMF **1998**, 63-72		4
76	Solar-terrestrial observations meet models at Alabama workshop. *Eos*, **1997**, 78, 266	1.5	
75	Bifurcated cusp ion signatures: Evidence for re-reconnection?. *Geophysical Research Letters*, **1997**, 24, 1471-1474	4.9	13
74	Initial TIMAS observations of ion conic heating in the cusp. *Advances in Space Research*, **1997**, 20, 841-844	2.4	1
73	The Toroidal Imaging Mass-Angle Spectrograph (TIMAS) for the polar mission. *Space Science Reviews*, **1995**, 71, 497-530	7.5	106

72	Extended (Bi-Modal) Ion Conies at High Altitudes. *Geophysical Monograph Series*, **1995**, 105-118	1.1	3
71	Flow-aligned jets in the magnetospheric cusp: Results from the Geospace Environment Modeling Pilot Program. *Journal of Geophysical Research*, **1995**, 100, 7649		42
70	Temporal and Spatial Signatures in the Injection of Magnetosheath Plasma into the Cusp/Cleft. *Geophysical Monograph Series*, **1994**, 171-181	1.1	1
69	On the sources of energization of molecular ions at ionospheric altitudes. *Journal of Geophysical Research*, **1994**, 99, 23257		27
68	Automatic detection of mass-resolved ion conics. *IEEE Transactions on Geoscience and Remote Sensing*, **1993**, 31, 407-416	8.1	2
67	The role of ring current nose events in producing stable auroral red arc intensifications during the main phase: Observations during the September 19-24, 1984, Equinox Transition Study. *Journal of Geophysical Research*, **1993**, 98, 9267		21
66	Magnetosheath-ionospheric plasma interactions in the cusp/cleft: 1, Observations of modulated injections and upwelling ion fluxes. *Journal of Geophysical Research*, **1993**, 98, 19315-19329		4
65	Observations of a transverse magnetic field perturbation at two altitudes on the equatorward edge of the magnetospheric cusp. *Journal of Geophysical Research*, **1993**, 98, 21463-21470		6
64	Simultaneous observations of H+ and O+; ions at two altitudes by the Akebono and Dynamics Explorer 1 satellites. *Journal of Geophysical Research*, **1993**, 98, 11177		22
63	O+ and He+ restricted and extended (BI-modal) ion conic distributions. *Geophysical Research Letters* , **1992**, 19, 1439-1442	4.9	37
62	The polar cap environment of outflowing O+. *Journal of Geophysical Research*, **1992**, 97, 8361		26
61	Electrostatic waves due to field-aligned electron beams in the low-latitude boundary layer. *Journal of Geophysical Research*, **1992**, 97, 3169-3183		2
60	Funnel-shaped, low-frequency equatorial waves. *Journal of Geophysical Research*, **1992**, 97, 14967		129
59	Magnetospheric boundary dynamics: DE 1 and DE 2 observations near the magnetopause and cusp. *Journal of Geophysical Research*, **1991**, 96, 3505		46
58	Plasma characteristics of upflowing ion beams in the polar cap region. *Journal of Geophysical Research*, **1990**, 95, 3907		20
57	Ion cyclotron resonance heated conics: Theory and observations. *Journal of Geophysical Research*, **1990**, 95, 3959		98
56	Double-peaked electrostatic ion cyclotron harmonic waves. *Journal of Geophysical Research*, **1990**, 95, 10591		3
55	Statistical analysis of upflowing ion beam and conic distributions at DE 1 altitudes. *Journal of Geophysical Research*, **1990**, 95, 12091		36

54	Ion heating by broadband low-frequency waves in the cusp/cleft. *Journal of Geophysical Research*, **1990**, 95, 20809		77
53	Entry and acceleration of He+ in the low latitude boundary layer. *Geophysical Research Letters*, **1989**, 16, 751-754	4.9	22
52	Direct injection of ionospheric O+ into the dayside low latitude boundary layer. *Geophysical Research Letters*, **1989**, 16, 1121-1124	4.9	30
51	Heating of Thermal Ions Near the Equatorward Boundary of the Mid-Altitude Polar Cleft **1989**, 103-113		12
50	Electron density depletions in the nightside auroral zone. *Journal of Geophysical Research*, **1988**, 93, 1871		156
49	The helium components of energetic terrestrial ion upflows: Their occurrence, morphology, and intensity. *Journal of Geophysical Research*, **1988**, 93, 7558		42
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