

William K Peterson

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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	FAST satellite observations of large-amplitude solitary structures. <i>Geophysical Research Letters</i> , 1998 , 25, 2041-2044	4.9	410
232	The Mars Atmosphere and Volatile Evolution (MAVEN) Mission. <i>Space Science Reviews</i> , 2015 , 195, 3-48	7.5	405
231	The plasma sheet boundary layer. <i>Journal of Geophysical Research</i> , 1984 , 89, 1553		336
230	Measurements of Secondary-Electron Spectra Produced by Electron Impact Ionization of a Number of Simple Gases. <i>Journal of Chemical Physics</i> , 1971 , 55, 4100-4106	3.9	329
229	Tables of secondary-electron-production cross sections. <i>Atomic Data and Nuclear Data Tables</i> , 1972 , 4, 209-253	2	265
228	The theta aurora. <i>Journal of Geophysical Research</i> , 1986 , 91, 3177		238
227	FAST observations in the downward auroral current region: Energetic upgoing electron beams, parallel potential drops, and ion heating. <i>Geophysical Research Letters</i> , 1998 , 25, 2017-2020	4.9	236
226	Energetic auroral and polar ion outflow at DE 1 altitudes: Magnitude, composition, magnetic activity dependence, and long-term variations. <i>Journal of Geophysical Research</i> , 1985 , 90, 8417		226
225	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. <i>Journal of Geophysical Research</i> , 2000 , 105, 18675-18692		218
224	FAST satellite observations of electric field structures in the auroral zone. <i>Geophysical Research Letters</i> , 1998 , 25, 2025-2028	4.9	218
223	Ion streams in the magnetotail. <i>Journal of Geophysical Research</i> , 1981 , 86, 4639-4648		167
222	FAST satellite wave observations in the AKR source region. <i>Geophysical Research Letters</i> , 1998 , 25, 2061-2064	4.9	158
221	Electron density depletions in the nightside auroral zone. <i>Journal of Geophysical Research</i> , 1988 , 93, 1871		156
220	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. <i>Geophysical Research Letters</i> , 1999 , 26, 425-428	4.9	153
219	Distribution of upflowing ionospheric ions in the high-altitude polar cap and auroral ionosphere. <i>Journal of Geophysical Research</i> , 1984 , 89, 5507		143
218	Loss of the Martian atmosphere to space: Present-day loss rates determined from MAVEN observations and integrated loss through time. <i>Icarus</i> , 2018 , 315, 146-157	3.8	136
217	MAVEN observations of the response of Mars to an interplanetary coronal mass ejection. <i>Science</i> , 2015 , 350, aad0210	33.3	131

216	Energetic ion composition of the plasma sheet. <i>Journal of Geophysical Research</i> , 1981 , 86, 761		131
215	Funnel-shaped, low-frequency equatorial waves. <i>Journal of Geophysical Research</i> , 1992 , 97, 14967		129
214	Long-term (solar cycle) and seasonal variations of upflowing ionospheric ion events at DE 1 altitudes. <i>Journal of Geophysical Research</i> , 1985 , 90, 6395		129
213	Escape of suprathermal O ⁺ ions in the polar cap. <i>Journal of Geophysical Research</i> , 1985 , 90, 1619		127
212	Ionospheric mass ejection in response to a CME. <i>Geophysical Research Letters</i> , 1999 , 26, 2339-2342	4.9	124
211	The polar ionosphere as a source of energetic magnetospheric plasma. <i>Geophysical Research Letters</i> , 1982 , 9, 941-944	4.9	115
210	The Toroidal Imaging Mass-Angle Spectrograph (TIMAS) for the polar mission. <i>Space Science Reviews</i> , 1995 , 71, 497-530	7.5	106
209	The polar wind: Recent observations. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2007 , 69, 1936-1983		104
208	Origin of the plasma in a cross-polar cap auroral feature (theta aurora). <i>Journal of Geophysical Research</i> , 1984 , 89, 6729		104
207	Ion cyclotron resonance heated conics: Theory and observations. <i>Journal of Geophysical Research</i> , 1990 , 95, 3959		98
206	FAST observations of VLF waves in the auroral zone: Evidence of very low plasma densities. <i>Geophysical Research Letters</i> , 1998 , 25, 2065-2068	4.9	96
205	HEUVAC: A new high resolution solar EUV proxy model. <i>Advances in Space Research</i> , 2006 , 37, 315-322	2.4	92
204	Timing of magnetic reconnection initiation during a global magnetospheric substorm onset. <i>Geophysical Research Letters</i> , 2002 , 29, 43-1-43-4	4.9	83
203	Quantitative Parametrization of Energetic Ionospheric Ion Outflow. <i>Geophysical Monograph Series</i> , 1988 , 211-217	1.1	82
202	Simulation of energetic particle injections associated with a substorm on August 27, 2001. <i>Geophysical Research Letters</i> , 2003 , 30, 4-1-4-4	4.9	81
201	Observations of two types of Pc 1 $\frac{1}{2}$ pulsations in the outer dayside magnetosphere. <i>Journal of Geophysical Research</i> , 2002 , 107, SMP 20-1-SMP 20-20		80
200	Direct evidence for two-stage (bimodal) acceleration of ionospheric ions. <i>Journal of Geophysical Research</i> , 1984 , 89, 10779		79
199	Early MAVEN Deep Dip campaign reveals thermosphere and ionosphere variability. <i>Science</i> , 2015 , 350, aad0459	33.3	77

198	Ion heating by broadband low-frequency waves in the cusp/cleft. <i>Journal of Geophysical Research</i> , 1990 , 95, 20809		77
197	Spatial structure and gradients of ion beams observed by FAST. <i>Geophysical Research Letters</i> , 1998 , 25, 2021-2024	4.9	72
196	The auroral current circuit and field-aligned currents observed by FAST. <i>Geophysical Research Letters</i> , 1998 , 25, 2033-2036	4.9	71
195	Cusp field-aligned currents and ion outflows. <i>Journal of Geophysical Research</i> , 2000 , 105, 21129-21141		65
194	High resolution daytime photoelectron energy spectra from AE-E. <i>Geophysical Research Letters</i> , 1976 , 3, 129-131	4.9	65
193	The origins of the plasma in the distant plasma sheet. <i>Journal of Geophysical Research</i> , 1982 , 87, 10420		64
192	Role of plasma waves in Mars' atmospheric loss. <i>Geophysical Research Letters</i> , 2006 , 33,	4.9	63
191	Energetic ion composition in the subsolar magnetopause and boundary layer. <i>Journal of Geophysical Research</i> , 1982 , 87, 2139		62
190	Filamentary structures in the magnetotail lobes. <i>Journal of Geophysical Research</i> , 1987 , 92, 2349		60
189	Large amplitude solitary waves in and near the Earth's magnetosphere, magnetopause and bow shock: Polar and Cluster observations. <i>Nonlinear Processes in Geophysics</i> , 2003 , 10, 13-26	2.9	59
188	Solar wind control of Earth's H ⁺ and O ⁺ outflow rates in the 15-eV to 33-keV energy range. <i>Journal of Geophysical Research</i> , 2004 , 109,		59
187	Plasmaspheric depletion and refilling associated with the September 25, 1998 magnetic storm observed by ground magnetometers at L = 2. <i>Geophysical Research Letters</i> , 2000 , 27, 633-636	4.9	55
186	Electron modulation and ion cyclotron waves observed by FAST. <i>Geophysical Research Letters</i> , 1998 , 25, 2045-2048	4.9	55
185	Measurement of low-energy electrons in the day airglow and day side auroral zone from Atmosphere Explorer C. <i>Journal of Geophysical Research</i> , 1975 , 80, 3934-3944		55
184	XUV Photometer System (XPS): Improved Solar Irradiance Algorithm Using CHIANTI Spectral Models. <i>Solar Physics</i> , 2008 , 250, 235-267	2.6	53
183	Coordinated rocket and satellite measurements of an auroral event, 1, Satellite observations and analysis. <i>Journal of Geophysical Research</i> , 1977 , 82, 2250-2258		53
182	Solar cycle variation of some mass dependent characteristics of upflowing beams of terrestrial ions. <i>Journal of Geophysical Research</i> , 1987 , 92, 4757		52
181	Observed trends in auroral zone ion mode solitary wave structure characteristics using data from Polar. <i>Journal of Geophysical Research</i> , 2001 , 106, 19013-19021		50

180	The seasonal variation of auroral ion beams. <i>Geophysical Research Letters</i> , 1998 , 25, 4071-4074	4.9	50
179	Cusp energetic ions: A bow shock source. <i>Geophysical Research Letters</i> , 1998 , 25, 3729-3732	4.9	50
178	Solar-minimum quiet time ion energization and outflow in dynamic boundary related coordinates. <i>Journal of Geophysical Research</i> , 2008 , 113, n/a-n/a		47
177	A comparison of a model for the theta aurora with observations from Polar, Wind, and SuperDARN. <i>Journal of Geophysical Research</i> , 1998 , 103, 17367-17390		47
176	Polar/Toroidal Imaging Mass-Angle Spectrograph observations of suprathermal ion outflow during solar minimum conditions. <i>Journal of Geophysical Research</i> , 2001 , 106, 6059-6066		46
175	Magnetospheric boundary dynamics: DE 1 and DE 2 observations near the magnetopause and cusp. <i>Journal of Geophysical Research</i> , 1991 , 96, 3505		46
174	AE-C observations of low-energy particles and ionospheric temperatures in the turbulent polar cusp: Evidence for the Kelvin-Helmholtz instability. <i>Journal of Geophysical Research</i> , 1978 , 83, 3877		45
173	Origins of energetic ions in the cusp. <i>Journal of Geophysical Research</i> , 2001 , 106, 5967-5976		44
172	Flow-aligned jets in the magnetospheric cusp: Results from the Geospace Environment Modeling Pilot Program. <i>Journal of Geophysical Research</i> , 1995 , 100, 7649		42
171	The helium components of energetic terrestrial ion upflows: Their occurrence, morphology, and intensity. <i>Journal of Geophysical Research</i> , 1988 , 93, 7558		42
170	FAST observations of preferentially accelerated He ⁺ in association with auroral electromagnetic ion cyclotron waves. <i>Geophysical Research Letters</i> , 1998 , 25, 2049-2052	4.9	38
169	Plasma sheet and (nonstorm) ring current formation from solar and polar wind sources. <i>Journal of Geophysical Research</i> , 2005 , 110,		37
168	O ⁺ and He ⁺ restricted and extended (BI-modal) ion conic distributions. <i>Geophysical Research Letters</i> , 1992 , 19, 1439-1442	4.9	37
167	Chromospheric heating by the Farley-Buneman instability. <i>Astronomy and Astrophysics</i> , 2008 , 480, 839-846	4.9	36
166	Species dependent energies in upward directed ion beams over auroral arcs as observed with FAST TEAMS. <i>Geophysical Research Letters</i> , 1998 , 25, 2029-2032	4.9	36
165	Statistical analysis of upflowing ion beam and conic distributions at DE 1 altitudes. <i>Journal of Geophysical Research</i> , 1990 , 95, 12091		36
164	Low-energy particle observations in the quiet dayside cusp from AE-C and AE-D. <i>Journal of Geophysical Research</i> , 1977 , 82, 4765-4776		36
163	The January 10, 1997 auroral hot spot, horseshoe aurora and first substorm: A CME loop?. <i>Geophysical Research Letters</i> , 1998 , 25, 3047-3050	4.9	35

162	Quiet time solar illumination effects on the fluxes and characteristic energies of ionospheric outflow. <i>Journal of Geophysical Research</i> , 2006 , 111,		34
161	H ⁺ and He ⁺ in the dawnside magnetosheath. <i>Geophysical Research Letters</i> , 1979 , 6, 667-670	4.9	34
160	Characteristic energy spectra of 1- to 500-eV electrons observed in the high-latitude ionosphere from Atmosphere Explorer C. <i>Journal of Geophysical Research</i> , 1976 , 81, 5507-5516		34
159	Spatial features observed in the cusp under steady solar wind conditions. <i>Journal of Geophysical Research</i> , 2002 , 107, SMP 10-1		32
158	Energetic magnetosheath ions connected to the Earth's bow shock: Possible source of cusp energetic ions. <i>Journal of Geophysical Research</i> , 2000 , 105, 5471-5488		32
157	Sudden compression of the outer magnetosphere associated with an ionospheric mass ejection. <i>Geophysical Research Letters</i> , 1999 , 26, 2343-2346	4.9	32
156	Conjugate photoelectron fluxes observed on Atmosphere Explorer C. <i>Geophysical Research Letters</i> , 1977 , 4, 109-112	4.9	32
155	Measurements of Energy and Angular Distributions of Secondary Electrons Produced in Electron-Impact Ionization of Helium. <i>Physical Review A</i> , 1972 , 5, 712-723	2.6	32
154	Transport of thermal-energy ionospheric oxygen (O ⁺) ions between the ionosphere and the plasma sheet and ring current at quiet times preceding magnetic storms. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		31
153	Dynamic coordinates for auroral ion outflow. <i>Journal of Geophysical Research</i> , 2004 , 109,		31
152	Simulation of off-equatorial ring current ion spectra measured by Polar for a moderate storm at solar minimum. <i>Journal of Geophysical Research</i> , 1999 , 104, 429-436		31
151	Vertical thermal O ⁺ flows at 850 km in dynamic auroral boundary coordinates. <i>Journal of Geophysical Research</i> , 2010 , 115, n/a-n/a		30
150	Temporal versus spatial interpretation of cusp ion structures observed by two spacecraft. <i>Journal of Geophysical Research</i> , 2002 , 107, SMP 9-1		30
149	Direct injection of ionospheric O ⁺ into the dayside low latitude boundary layer. <i>Geophysical Research Letters</i> , 1989 , 16, 1121-1124	4.9	30
148	Solar extreme ultraviolet variability of the X-class flare on 21 April 2002 and the terrestrial photoelectron response. <i>Space Weather</i> , 2003 , 1, n/a-n/a	3.7	29
147	Initial FAST observations of acceleration processes in the cusp. <i>Geophysical Research Letters</i> , 1998 , 25, 2037-2040	4.9	29
146	Photoelectrons and solar ionizing radiation at Mars: Predictions versus MAVEN observations. <i>Journal of Geophysical Research: Space Physics</i> , 2016 , 121, 8859-8870	2.6	29
145	Electric Mars: The first direct measurement of an upper limit for the Martian polar wind electric potential. <i>Geophysical Research Letters</i> , 2015 , 42, 9128-9134	4.9	28

144	Cusp and magnetopause locations in global MHD simulation. <i>Journal of Geophysical Research</i> , 2001 , 106, 29435-29450		28
143	Multiple discrete-energy ion features in the inner magnetosphere: Observations and simulations. <i>Geophysical Research Letters</i> , 2000 , 27, 1447-1450	4.9	27
142	Plasma waves observed during cusp energetic particle events and their correlation with Polar and Akebono satellite and ground data. <i>Advances in Space Research</i> , 1999 , 24, 23-33	2.4	27
141	On the sources of energization of molecular ions at ionospheric altitudes. <i>Journal of Geophysical Research</i> , 1994 , 99, 23257		27
140	Estimates of the suprathermal O ⁺ outflow characteristic energy and relative location in the auroral oval. <i>Geophysical Research Letters</i> , 2005 , 32,	4.9	26
139	The polar cap environment of outflowing O ⁺ . <i>Journal of Geophysical Research</i> , 1992 , 97, 8361		26
138	Measured and modeled backscatter of ionospheric photoelectron fluxes. <i>Journal of Geophysical Research</i> , 2008 , 113, n/a-n/a		25
137	On spatial and temporal structures in the cusp. <i>Journal of Geophysical Research</i> , 1999 , 104, 28411-28421		25
136	Transverse ion energization and low-frequency plasma waves in the mid-altitude auroral zone: A case study. <i>Journal of Geophysical Research</i> , 1988 , 93, 11405		25
135	AMPTE/CCE observations of the plasma composition below 17 keV during the September 4, 1984 magnetic storm. <i>Geophysical Research Letters</i> , 1985 , 12, 321-324	4.9	25
134	Energy distributions of electrons ejected in ionizing collisions of electrons with helium. <i>Journal of Physics B: Atomic and Molecular Physics</i> , 1971 , 4, 1020-1025		25
133	MAVEN Observations of Solar Wind-Driven Magnetosonic Waves Heating the Martian Dayside Ionosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 4129-4149	2.6	25
132	The electric wind of Venus: A global and persistent polar wind-like ambipolar electric field sufficient for the direct escape of heavy ionospheric ions. <i>Geophysical Research Letters</i> , 2016 , 43, 5926-5934	4.9	24
131	The Mars Topside Ionosphere Response to the X8.2 Solar Flare of 10 September 2017. <i>Geophysical Research Letters</i> , 2018 , 45, 8005-8013	4.9	24
130	Influences of the Ionosphere, Thermosphere and Magnetosphere on Ion Outflows 2011 , 283-314		24
129	History of kinetic polar wind models and early observations. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2007 , 69, 1901-1935	2	24
128	Observations of centrifugal acceleration during compression of magnetosphere. <i>Geophysical Research Letters</i> , 2000 , 27, 915-918	4.9	24
127	Polar observations of convection with northward interplanetary magnetic field at dayside high latitudes. <i>Journal of Geophysical Research</i> , 1998 , 103, 29-45		23

126	Pitch angle distributions of low-energy ions in the near-Earth magnetosphere. <i>Journal of Geophysical Research</i> , 1987 , 92, 12241		23
125	Model insights into energetic photoelectrons measured at Mars by MAVEN. <i>Geophysical Research Letters</i> , 2015 , 42, 8894-8900	4.9	22
124	On the High- and Low-Altitude Limits of the Auroral Electric Field Region. <i>Geophysical Monograph Series</i> , 2013 , 143-154	1.1	22
123	Geomagnetic activity dependence of O ⁺ in transit from the ionosphere. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2009 , 71, 1623-1629	2	22
122	The Time-of-Flight Energy, Angle, Mass Spectrograph (Teams) Experiment for Fast. <i>Space Science Reviews</i> , 2001 , 98, 197-219	7.5	22
121	Observations of polar cap arcs on FAST. <i>Journal of Geophysical Research</i> , 1999 , 104, 12669-12681		22
120	Simultaneous observations of H ⁺ and O ⁺ ions at two altitudes by the Akebono and Dynamics Explorer 1 satellites. <i>Journal of Geophysical Research</i> , 1993 , 98, 11177		22
119	Entry and acceleration of He ⁺ in the low latitude boundary layer. <i>Geophysical Research Letters</i> , 1989 , 16, 751-754	4.9	22
118	Interaction of upgoing auroral H ⁺ and O ⁺ beams. <i>Journal of Geophysical Research</i> , 1986 , 91, 10080		22
117	Comparison of different solar irradiance models for the superthermal electron transport model for Mars. <i>Planetary and Space Science</i> , 2015 , 119, 62-68	2	21
116	Neutral density response to solar flares at Mars. <i>Geophysical Research Letters</i> , 2015 , 42, 8986-8992	4.9	21
115	Observation of the magnetospheric cusp and its implications relative to solar-wind/magnetospheric coupling: A multisatellite event analysis. <i>Journal of Geophysical Research</i> , 2001 , 106, 6097-6122		21
114	Fast Auroral Snapshot observations of cusp electron and ion structures. <i>Journal of Geophysical Research</i> , 2001 , 106, 25595-25600		21
113	Broadband plasma waves observed in the polar cap boundary layer: Polar. <i>Journal of Geophysical Research</i> , 1998 , 103, 17351-17366		21
112	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. <i>Journal of Geophysical Research</i> , 1993 , 98, 9267		21
111	Solar EUV and XUV energy input to thermosphere on solar rotation time scales derived from photoelectron observations. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		20
110	Polar observations of solitary waves at high and low altitudes and comparison to theory. <i>Advances in Space Research</i> , 2001 , 28, 1631-1641	2.4	20
109	Plasma characteristics of upflowing ion beams in the polar cap region. <i>Journal of Geophysical Research</i> , 1990 , 95, 3907		20

108	Comparison between calculated and measured photoelectron fluxes from Atmosphere Explorer C and E. <i>Journal of Geophysical Research</i> , 1977 , 82, 5099-5103		20
107	Hot Plasma Composition Results from the ISEE-1 Spacecraft 1983 , 231-261		20
106	Martian Electron Temperatures in the Subsolar Region: MAVEN Observations Compared to a One-Dimensional Model. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 5960-5973	2.6	19
105	Investigation into the spatial and temporal coherence of ionospheric outflow on January 9 th 1997. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2002 , 64, 1659-1666	2	19
104	FAST/TEAMS observations of charge exchange signatures in ions mirroring at low altitudes. <i>Geophysical Research Letters</i> , 1998 , 25, 2085-2088	4.9	19
103	Ion Injection and Acceleration in the Polar Cusp 1985 , 67-84		19
102	Measurement of magnetic field aligned potential differences using high resolution conjugate photoelectron energy spectra. <i>Geophysical Research Letters</i> , 1977 , 4, 373-376	4.9	18
101	Informatics and the 2007-2008 Electronic Geophysical Year. <i>Eos</i> , 2008 , 89, 485-486	1.5	17
100	Characteristics of electromagnetic proton cyclotron waves along auroral field lines observed by FAST in regions of upward current. <i>Geophysical Research Letters</i> , 1998 , 25, 2057-2060	4.9	17
99	Comment on "Correlation of cusp MeV helium with turbulent ULF power spectra and its implications" <i>Geophysical Research Letters</i> , 1999 , 26, 1361-1362	4.9	17
98	Generation of Bernstein waves by ion shell distributions in the auroral region. <i>Annales Geophysicae</i> , 2003 , 21, 881-891	2	16
97	Polar/Toroidal Imaging Mass-Angle Spectrograph survey of earthward field-aligned proton flows from the near-midnight tail. <i>Journal of Geophysical Research</i> , 2001 , 106, 5859-5871		16
96	Photoelectrons as a tool to evaluate spectral variations in solar EUV irradiance over solar cycle timescales. <i>Journal of Geophysical Research</i> , 2009 , 114, n/a-n/a		15
95	Model/data comparisons of ionospheric outflow as a function of invariant latitude and magnetic local time. <i>Journal of Geophysical Research</i> , 2008 , 113, n/a-n/a		15
94	Reply to comment on "Origins of energetic ions in the cusp" by R. Sheldon, J. Chen, and T. A. Fritz. <i>Journal of Geophysical Research</i> , 2003 , 108,		15
93	Responses of the open/closed field line boundary in the evening sector to IMF changes: A source mechanism for Sun-aligned arcs. <i>Journal of Geophysical Research</i> , 2003 , 108, SMP 4-1		15
92	Toroidal ion distributions observed at high altitudes equatorward of the cusp. <i>Geophysical Research Letters</i> , 2000 , 27, 469-472	4.9	15
91	Observations of traveling Pc5 waves and their relation to the magnetic cloud event of January 1997. <i>Journal of Geophysical Research</i> , 2000 , 105, 5441-5452		15

90	Electrodynamics of the poleward auroral border observed by Polar during a substorm on April 22, 1998. <i>Journal of Geophysical Research</i> , 2001 , 106, 5927-5943		15
89	Observations of 10-eV to 25-keV electrons in steady diffuse aurora from Atmosphere Explorer C and D. <i>Journal of Geophysical Research</i> , 1977 , 82, 43-47		15
88	Bifurcated cusp ion signatures: Evidence for re-reconnection?. <i>Geophysical Research Letters</i> , 1997 , 24, 1471-1474	4.9	13
87	An auroral F-region study using in situ measurements by the Atmosphere Explorer-C satellite. <i>Planetary and Space Science</i> , 1975 , 23, 1669-1679	2	13
86	Relationship of topside ionospheric ion outflows to auroral forms and precipitation, plasma waves, and convection observed by Polar. <i>Journal of Geophysical Research</i> , 1998 , 103, 17391-17410		12
85	Heating of Thermal Ions Near the Equatorward Boundary of the Mid-Altitude Polar Cleft 1989 , 103-113		12
84	Ambipolar Electric Field in the Martian Ionosphere: MAVEN Measurements. <i>Journal of Geophysical Research: Space Physics</i> , 2019 , 124, 4518-4524	2.6	11
83	Correlations between variations in solar EUV and soft X-ray irradiance and photoelectron energy spectra observed on Mars and Earth. <i>Journal of Geophysical Research: Space Physics</i> , 2013 , 118, 7338-7347 ⁶		11
82	Cusp energetic ions as tracers for particle transport into the magnetosphere. <i>Journal of Geophysical Research</i> , 2010 , 115, n/a-n/a		11
81	O ⁺ observations in the cusp: Implications for dayside magnetic field topology. <i>Journal of Geophysical Research</i> , 2001 , 106, 5977-5986		11
80	Initial Hot Plasma Composition Results from the Dynamics Explorer 1983 , 353-367		11
79	On the occurrence of magnetic reconnection equatorward of the cusps at the Earth's magnetopause during northward IMF conditions. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 605-617	2.6	10
78	A global comparison of O ⁺ upward flows at 850 km and outflow rates at 6000 km during nonstorm times. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		10
77	Dawnward shift of the dayside O ⁺ outflow distribution: The importance of field line history in O ⁺ escape from the ionosphere. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		10
76	Photoelectron flux variations observed from the FAST satellite. <i>Advances in Space Research</i> , 2008 , 42, 947-956	2.4	10
75	Wave power studies of cusp crossings with the Polar satellite. <i>Journal of Geophysical Research</i> , 2001 , 106, 5987-6006		10
74	The source population for the cusp and cleft/LLBL for southward IMF. <i>Geophysical Research Letters</i> , 1999 , 26, 1665-1668	4.9	10
73	Satellite observations of new particle and field signatures associated with SAR arc field lines at magnetospheric heights. <i>Advances in Space Research</i> , 1987 , 7, 3-6	2.4	10

72	The mass dependence of wave particle interactions as observed with the ISEE-1 energetic ion mass spectrometer. <i>Geophysical Research Letters</i> , 1983 , 10, 651-654	4.9	10
71	Enhanced ion outflows measured by the DE 1 high altitude plasma instrument in the dayside plasmasphere during the recovery phase. <i>Journal of Geophysical Research</i> , 1985 , 90, 1653		10
70	A study of inverted-V auroral acceleration mechanisms using Polar/Fast Auroral Snapshot conjunctions. <i>Journal of Geophysical Research</i> , 2001 , 106, 18995-19011		9
69	Plasma sheet dynamics observed by the Polar spacecraft in association with substorm onsets. <i>Journal of Geophysical Research</i> , 2001 , 106, 19117-19130		9
68	Overlapping ion populations in the cusp: polar/TIMAS results. <i>Geophysical Research Letters</i> , 1998 , 25, 1621-1624	4.9	9
67	Correlations between enhanced electron temperatures and electric field wave power in the Martian ionosphere. <i>Geophysical Research Letters</i> , 2018 , 45, 493-501	4.9	8
66	Spatial and Temporal Cusp Structures Observed by Multiple Spacecraft and Ground Based Observations. <i>Surveys in Geophysics</i> , 2005 , 26, 281-305	7.6	8
65	The Time-of-Flight Energy, Angle, Mass Spectrograph (Teams) Experiment for Fast 2001 , 197-219		8
64	Tracing the location of the reconnection site from the northern and southern cusps. <i>Journal of Geophysical Research</i> , 2006 , 111,		7
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