Joseph E Borovsky

List of Publications by Year in Descending Order

162 papers	7,453 citations	50 h-index	81 g-index
192 ext. papers	8,353 ext. citations	3.4 avg, IF	6.62 L-index

#	Paper	IF	Citations
162	Quantifying the non-linear dependence of energetic electron fluxes in the Earth's radiation belts with radial diffusion drivers. *Annales Geophysicae*, **2022**, 40, 37-53	2	0
161	Exploring the Properties of the Electron Strahl at 1 AU as an Indicator of the Quality of the Magnetic Connection Between the Earth and the Sun. *Frontiers in Astronomy and Space Sciences*, **2021**, 8,	3.8	1
160	Is Our Understanding of Solar-Wind/Magnetosphere Coupling Satisfactory?. *Frontiers in Astronomy and Space Sciences*, **2021**, 8,	3.8	1
159	The impact of cold electrons and cold ions in magnetospheric physics. *Journal of Atmospheric and Solar-Terrestrial Physics*, **2021**, 220, 105599	2	5
158	A Statistical Analysis of the Fluctuations in the Upstream and Downstream Plasmas of 109 Strong-Compression Interplanetary Shocks at 1´AU. *Journal of Geophysical Research: Space Physics*, **2020**, 125, e2019JA027518	2.6	7
157	Nine Outstanding Questions of Solar Wind Physics. *Journal of Geophysical Research: Space Physics*, **2020**, 125, e2018JA026005	2.6	28
156	Solving the auroral-arc-generator question by using an electron beam to unambiguously connect critical magnetospheric measurements to auroral images. *Journal of Atmospheric and Solar-Terrestrial Physics*, **2020**, 206, 105310	2	2
155	Plasma and Magnetic-Field Structure of the Solar Wind at Inertial-Range Scale Sizes Discerned From Statistical Examinations of the Time-Series Measurements. *Frontiers in Astronomy and Space Sciences*, **2020**, 7,	3.8	6
154	A survey of geomagnetic and plasma time lags in the solar-wind-driven magnetosphere of earth. *Journal of Atmospheric and Solar-Terrestrial Physics*, **2020**, 208, 105376	2	2
153	Outstanding questions in magnetospheric plasma physics: The pollenzo view. *Journal of Atmospheric and Solar-Terrestrial Physics*, **2020**, 208, 105377	2	9
152	On the Motion of the Heliospheric Magnetic Structure Through the Solar Wind Plasma. *Journal of Geophysical Research: Space Physics*, **2020**, 125, e2019JA027377	2.6	9
151	Quiescent Discrete Auroral Arcs: A Review of Magnetospheric Generator Mechanisms. *Space Science Reviews*, **2020**, 216, 1	7.5	14
150	The Compression of the Heliospheric Magnetic Structure by Interplanetary Shocks: Is the Structure at 1AU a Manifestation of Solar-Wind Turbulence or Is It Fossil Structure From the Sun?. *Frontiers in Astronomy and Space Sciences*, **2020**, 7,	3.8	2
149	Substorm Current Wedge: Energy Conversion and Current Diversion. *Journal of Geophysical Research: Space Physics*, **2020**, 125, e2020JA028073	2.6	1
148	What magnetospheric and ionospheric researchers should know about the solar wind. *Journal of Atmospheric and Solar-Terrestrial Physics*, **2020**, 204, 105271	2	11
147	The Magnetic Structure of the Solar Wind: Ionic Composition and the Electron Strahl. *Geophysical Research Letters*, **2020**, 47, e2019GL084586	4.9	10
146	On the Fourier Contribution of Strong Current Sheets to the High-Frequency Magnetic Power SpectralDensity of the Solar Wind. *Journal of Geophysical Research: Space Physics*, **2020**, 125, e2019JA027307	2.6	6

145	Magnetic Connectivity in the Corona as a Source of Structure in the Solar Wind. *Journal of Geophysical Research: Space Physics*, **2019**, 124, 32-49	2.6	12
144	Patch Size Evolution During Pulsating Aurora. *Journal of Geophysical Research: Space Physics*, **2019**, 124, 4725-4738	2.6	10
143	Active Experiments in Space: The Future. *Frontiers in Astronomy and Space Sciences*, **2019**, 6,	3.8	9
142	Some Properties of the Solar Wind Turbulence at 1 AU Statistically Examined in the Different Types of Solar Wind Plasma. *Journal of Geophysical Research: Space Physics*, **2019**, 124, 2406	2.6	11
141	Compacting the description of a time-dependent multivariable system and its multivariable driver by reducing the state vectors to aggregate scalars: the Earth's solar-wind-driven magnetosphere. *Nonlinear Processes in Geophysics*, **2019**, 26, 429-443	2.9	5
140	SAMI3 Simulations of a Persistent Plasmasphere Plume. *Geophysical Research Letters*, **2018**, 45, 3374-3381	4.9	5
139	On the Origins of the Intercorrelations Between Solar Wind Variables. *Journal of Geophysical Research: Space Physics*, **2018**, 123, 20-29	2.6	14
138	The spatial structure of the oncoming solar wind at Earth and the shortcomings of a solar-wind monitor at L1. *Journal of Atmospheric and Solar-Terrestrial Physics*, **2018**, 177, 2-11	2	20
137	Spacecraft-Charging Mitigation of a High-Power Electron Beam Emitted by a Magnetospheric Spacecraft: Simple Theoretical Model for the Transient of the Spacecraft Potential. *Journal of Geophysical Research: Space Physics*, **2018**, 123, 6424-6442	2.6	7
136	The Earth's Magnetosphere: A Systems Science Overview and Assessment. *Surveys in Geophysics*, **2018**, 39, 817-859	7.6	32
135	Looking for Evidence of Wind-Shear Disconnections of the Earth's Magnetotail: GEOTAIL Measurements and LFM MHD Simulations. *Journal of Geophysical Research: Space Physics*, **2018**, 123, 5538-5560	2.6	3
134	Exploration of a Composite Index to Describe Magnetospheric Activity: Reduction of the Magnetospheric State Vector to a Single Scalar. *Journal of Geophysical Research: Space Physics*, **2018**, 123, 7384-7412	2.6	9
133	Substorm occurrence rates, substorm recurrence times, and solar wind structure. *Journal of Geophysical Research: Space Physics*, **2017**, 122, 2973-2998	2.6	37
132	Electrical conductivity channels in the atmosphere produced by relativistic-electron microbursts from the magnetosphere. *Journal of Atmospheric and Solar-Terrestrial Physics*, **2017**, 155, 22-26	2	6
131	The response of the inner magnetosphere to the trailing edges of high-speed solar-wind streams. *Journal of Geophysical Research: Space Physics*, **2017**, 122, 501-516	2.6	11
130	Time-Integral Correlations of Multiple Variables With the Relativistic-Electron Flux at Geosynchronous Orbit: The Strong Roles of Substorm-Injected Electrons and the Ion Plasma Sheet. *Journal of Geophysical Research: Space Physics*, **2017**, 122, 11,961-11,990	2.6	20
129	Classification of Solar Wind With Machine Learning. *Journal of Geophysical Research: Space Physics*, **2017**, 122, 10,910	2.6	34
128	Is the Dst Index Sufficient to Define All Geospace Storms?. *Journal of Geophysical Research: Space Physics*, **2017**, 122, 11,543-11,547	2.6	26

127	Systems science of the magnetosphere: Creating indices of substorm activity, of the substorm-injected electron population, and of the electron radiation belt. *Journal of Geophysical Research: Space Physics*, **2017**, 122, 10,012-10,035	2.6	14
126	The Contribution of Compressional Magnetic Pumping to the Energization of the Earth's Outer Electron Radiation Belt During High-Speed Stream-Driven Storms. *Journal of Geophysical Research: Space Physics*, **2017**, 122, 12,072	2.6	4
125	The trailing edges of high-speed streams at 1 AU. *Journal of Geophysical Research: Space Physics*, **2016**, 121, 6107-6140	2.6	21
124	An improved empirical model of electron and ion fluxes at geosynchronous orbit based on upstream solar wind conditions. *Space Weather*, **2016**, 14, 511-523	3.7	34
123	Compressional perturbations of the dayside magnetosphere during high-speed-stream-driven geomagnetic storms. *Journal of Geophysical Research: Space Physics*, **2016**, 121, 4569-4589	2.6	16
122	The plasma structure of coronal hole solar wind: Origins and evolution. *Journal of Geophysical Research: Space Physics*, **2016**, 121, 5055-5087	2.6	45
121	Can an electron gun solve the outstanding problem of magnetosphere-ionosphere connectivity?. *Journal of Geophysical Research: Space Physics*, **2016**, 121, 6769-6773	2.6	10
120	Preface: Unsolved problems of magnetospheric physics. *Journal of Geophysical Research: Space Physics*, **2016**, 121, 10,783-10,785	2.6	19
119	The proton and electron radiation belts at geosynchronous orbit: Statistics and behavior during high-speed stream-driven storms. *Journal of Geophysical Research: Space Physics*, **2016**, 121, 5449-5488	2.6	17
118	Relativity and the Solar Wind: The Maxwell-Equation Origins of the Solar-Wind Motional Electric Field. *Journal of Electromagnetic Analysis and Applications*, **2016**, 08, 133-151	0.3	4
117	Relationship between the durations of jumps in solar wind time series and the frequency of the spectral break. *Journal of Geophysical Research: Space Physics*, **2016**, 121, 1817-1838	2.6	7
116	Future beam experiments in the magnetosphere with plasma contactors: The electron collection and ion emission routes. *Journal of Geophysical Research: Space Physics*, **2015**, 120, 3588-3602	2.6	14
115	Future beam experiments in the magnetosphere with plasma contactors: How do we get the charge off the spacecraft?. *Journal of Geophysical Research: Space Physics*, **2015**, 120, 3647-3664	2.6	12
114	An empirical model of electron and ion fluxes derived from observations at geosynchronous orbit. *Space Weather*, **2015**, 13, 233-249	3.7	31
113	Exploring the effect of current sheet thickness on the high-frequency Fourier spectrum breakpoint of the solar wind. *Journal of Geophysical Research: Space Physics*, **2015**, 120, 9256-9268	2.6	13
112	A new four-plasma categorization scheme for the solar wind. *Journal of Geophysical Research: Space Physics*, **2015**, 120, 70-100	2.6	73
111	The solar wind electric field does not control the dayside reconnection rate. *Journal of Geophysical Research: Space Physics*, **2014**, 119, 751-760	2.6	50
110	Statistically measuring the amount of pitch angle scattering that energetic electrons undergo as they drift across the plasmaspheric drainage plume at geosynchronous orbit. *Journal of Geophysical Research: Space Physics*, **2014**, 119, 1814-1826	2.6	10

109	Long-lived plasmaspheric drainage plumes: Where does the plasma come from?. *Journal of Geophysical Research: Space Physics*, **2014**, 119, 6496-6520	2.6	27
108	Exploring the cross correlations and autocorrelations of the ULF indices and incorporating the ULF indices into the systems science of the solar wind-driven magnetosphere. *Journal of Geophysical Research: Space Physics*, **2014**, 119, 4307-4334	2.6	31
107	Canonical correlation analysis of the combined solar wind and geomagnetic index data sets. *Journal of Geophysical Research: Space Physics*, **2014**, 119, 5364-5381	2.6	32
106	Evolution of mass density and O+ concentration at geostationary orbit during storm and quiet events. *Journal of Geophysical Research: Space Physics*, **2014**, 119, 6417-6431	2.6	18
105	How important are the alpha-proton relative drift and the electron heat flux for the proton heating of the solar wind in the inner heliosphere?. *Journal of Geophysical Research: Space Physics*, **2014**, 119, 5210-5219	2.6	26
104	No evidence for the localized heating of solar wind protons at intense velocity shear zones. *Journal of Geophysical Research: Space Physics*, **2014**, 119, 1455-1462	2.6	10
103	First optical observations of energetic electron precipitation at 4278 Å caused by a powerful VLF transmitter. *Geophysical Research Letters*, **2014**, 41, 2237-2242	4.9	2
102	Observations and modeling of magnetic flux tube refilling of the plasmasphere at geosynchronous orbit. *Journal of Geophysical Research: Space Physics*, **2014**, 119, 9246-9255	2.6	6
101	Geophysics. Feedback of the magnetosphere. *Science*, **2014**, 343, 1086-7	33.3	11
100	CPIC: A Curvilinear Particle-in-Cell Code for Plasma–Material Interaction Studies. *IEEE Transactions on Plasma Science*, **2013**, 41, 3577-3587	1.3	46
99	Physics-based solar wind driver functions for the magnetosphere: Combining the reconnection-coupled MHD generator with the viscous interaction. *Journal of Geophysical Research: Space Physics*, **2013**, 118, 7119-7150	2.6	26
98	The Strong-Double-Layer Model of Auroral Arcs: an Assessment. *Geophysical Monograph Series*, **2013**, 113-120	1.1	6
97	Optical Measurements of the Fine Structure of Auroral Arcs. *Geophysical Monograph Series*, **2013**, 25-30	1.1	11
96	The Direct Production of Ion Conics by Plasma Double Layers. *Geophysical Monograph Series*, **2013**, 317-322	1.1	5
95	Physical improvements to the solar wind reconnection control function for the Earth's magnetosphere. *Journal of Geophysical Research: Space Physics*, **2013**, 118, 2113-2121	2.6	53
94	Asymmetry of magnetosheath flows and magnetopause shape during low Alfvén Mach number solar wind. *Journal of Geophysical Research: Space Physics*, **2013**, 118, 1089-1100	2.6	41
93	Estimating the effects of ionospheric plasma on solar wind/magnetosphere coupling via mass loading of dayside reconnection: Ion-plasma-sheet oxygen, plasmaspheric drainage plumes, and the plasma cloak. *Journal of Geophysical Research: Space Physics*, **2013**, 118, 5695-5719	2.6	50
92	The analysis of electron fluxes at geosynchronous orbit employing a NARMAX approach. *Journal of Geophysical Research: Space Physics*, **2013**, 118, 1500-1513	2.6	55

91	The differences between storms driven by helmet streamer CIRs and storms driven by pseudostreamer CIRs. *Journal of Geophysical Research: Space Physics*, **2013**, 118, 5506-5521	2.6	20
90	Low-degree structure in Mercury's planetary magnetic field. *Journal of Geophysical Research*, **2012**, 117, n/a-n/a		103
89	Magnetosphere response to high-speed solar wind streams: A comparison of weak and strong driving and the importance of extended periods of fast solar wind. *Journal of Geophysical Research*, **2012**, 117, n/a-n/a		39
88	The velocity and magnetic field fluctuations of the solar wind at 1 AU: Statistical analysis of Fourier spectra and correlations with plasma properties. *Journal of Geophysical Research*, **2012**, 117, n/a-n/a		64
87	The role of compressibility in energy release by magnetic reconnection. *Physics of Plasmas*, **2012**, 19, 082109	2.1	17
86	The effect of sudden wind shear on the Earth's magnetosphere: Statistics of wind shear events and CCMC simulations of magnetotail disconnections. *Journal of Geophysical Research*, **2012**, 117, n/a-n/a		30
85	Looking for evidence of mixing in the solar wind from 0.31 to 0.98 AU. *Journal of Geophysical Research*, **2012**, 117, n/a-n/a		23
84	Testing the necessity of transient spikes in the storm time ring current drivers. *Journal of Geophysical Research*, **2011**, 116, n/a-n/a		4
83	A survey of the anisotropy of the outer electron radiation belt during high-speed-stream-driven storms. *Journal of Geophysical Research*, **2011**, 116,		21
82	Energetic electron precipitation during high-speed solar wind stream driven storms. *Journal of Geophysical Research*, **2011**, 116,		93
81	Electron-ion Coulomb scattering and the electron Landau damping of Alfvn waves in the solar wind. *Journal of Geophysical Research*, **2011**, 116, n/a-n/a		13
80	Using the NARMAX approach to model the evolution of energetic electrons fluxes at geostationary orbit. *Geophysical Research Letters*, **2011**, 38, n/a-n/a	4.9	81
79	Entropy mapping of the outer electron radiation belt between the magnetotail and geosynchronous orbit. *Journal of Geophysical Research*, **2011**, 116, n/a-n/a		29
78	Evolution of the magnetotail energetic-electron population during high-speed-stream-driven storms: Evidence for the leakage of the outer electron radiation belt into the Earth's magnetotail. *Journal of Geophysical Research*, **2011**, 116, n/a-n/a		8
77	SPECTRAL SCALING LAWS IN MAGNETOHYDRODYNAMIC TURBULENCE SIMULATIONS AND IN THE SOLAR WIND. *Astrophysical Journal Letters*, **2011**, 741, L19	7.9	80
76	NO EVIDENCE FOR HEATING OF THE SOLAR WIND AT STRONG CURRENT SHEETS. *Astrophysical Journal Letters*, **2011**, 739, L61	7.9	27
75	Scaling of asymmetric reconnection in compressible plasmas. *Physics of Plasmas*, **2010**, 17, 052108	2.1	52
74	Contribution of strong discontinuities to the power spectrum of the solar wind. *Physical Review Letters*, **2010**, 105, 111102	7.4	68

73	A density-temperature description of the outer electron radiation belt during geomagnetic storms. *Journal of Geophysical Research*, **2010**, 115, n/a-n/a		31
72	Solar wind turbulence and shear: A superposed-epoch analysis of corotating interaction regions at 1 AU. *Journal of Geophysical Research*, **2010**, 115, n/a-n/a		78
71	On the variations of the solar wind magnetic field about the Parker spiral direction. *Journal of Geophysical Research*, **2010**, 115, n/a-n/a		59
70	Magnetic field at geosynchronous orbit during high-speed stream-driven storms: Connections to the solar wind, the plasma sheet, and the outer electron radiation belt. *Journal of Geophysical Research*, **2010**, 115, n/a-n/a		53
69	On the heating of the outer radiation belt to produce high fluxes of relativistic electrons: Measured heating rates at geosynchronous orbit for high-speed stream-driven storms. *Journal of Geophysical Research*, **2010**, 115, n/a-n/a		25
68	A KINETIC ALFVÉN WAVE CASCADE SUBJECT TO COLLISIONLESS DAMPING CANNOT REACH ELECTRON SCALES IN THE SOLAR WIND AT 1 AU. *Astrophysical Journal*, **2010**, 712, 685-691	4.7	68
67	SPECTRAL INDICES FOR MULTI-DIMENSIONAL INTERPLANETARY TURBULENCE AT 1 AU. *Astrophysical Journal*, **2009**, 692, 684-693	4.7	83
66	On shear viscosity and the Reynolds number of magnetohydrodynamic turbulence in collisionless magnetized plasmas: Coulomb collisions, Landau damping, and Bohm diffusion. *Physics of Plasmas*, **2009**, 16, 082307	2.1	17
65	The superdense plasma sheet in the magnetosphere during high-speed-stream-driven storms: Plasma transport timescales. *Journal of Atmospheric and Solar-Terrestrial Physics*, **2009**, 71, 1045-1058	2	40
64	Tracing solar wind plasma entry into the magnetosphere using ion-to-electron temperature ratio. *Geophysical Research Letters*, **2009**, 36,	4.9	21
63	Polar cap potential saturation, dayside reconnection, and changes to the magnetosphere. *Journal of Geophysical Research*, **2009**, 114, n/a-n/a		44
62	Electron loss rates from the outer radiation belt caused by the filling of the outer plasmasphere: The calm before the storm. *Journal of Geophysical Research*, **2009**, 114, n/a-n/a		38
61	Relativistic-electron dropouts and recovery: A superposed epoch study of the magnetosphere and the solar wind. *Journal of Geophysical Research*, **2009**, 114, n/a-n/a		81
60	What determines the reconnection rate at the dayside magnetosphere?. *Journal of Geophysical Research*, **2008**, 113, n/a-n/a		107
59	The rudiments of a theory of solar wind/magnetosphere coupling derived from first principles. *Journal of Geophysical Research*, **2008**, 113, n/a-n/a		71
58	Flux tube texture of the solar wind: Strands of the magnetic carpet at 1 AU?. *Journal of Geophysical Research*, **2008**, 113, n/a-n/a		221
57	A statistical look at plasmaspheric drainage plumes. *Journal of Geophysical Research*, **2008**, 113, n/a-n/a		91
56	Superposed epoch analysis of high-speed-stream effects at geosynchronous orbit: Hot plasma, cold plasma, and the solar wind. *Journal of Geophysical Research*, **2008**, 113, n/a-n/a		54

55	High-Speed Solar Wind Streams: A Call for Key Research. *Eos*, **2008**, 89, 62	1.5	22
54	Altered solar wind-magnetosphere interaction at low Mach numbers: Coronal mass ejections. *Journal of Geophysical Research*, **2008**, 113, n/a-n/a		107
53	Influence of epoch time selection on the results of superposed epoch analysis using ACE and MPA data. *Journal of Geophysical Research*, **2008**, 113, n/a-n/a		24
52	Damping of long-wavelength kinetic Alfvén fluctuations: Linear theory. *Journal of Geophysical Research*, **2008**, 113, n/a-n/a		20
51	Properties of asymmetric magnetic reconnection. *Physics of Plasmas*, **2008**, 15, 032101	2.1	69
50	Strong bulk plasma acceleration in Earth's magnetosheath: A magnetic slingshot effect?. *Geophysical Research Letters*, **2007**, 34,	4.9	56
49	The reconnection of magnetic fields between plasmas with different densities: Scaling relations. *Physics of Plasmas*, **2007**, 14, 102309	2.1	62
48	Eddy viscosity and flow properties of the solar wind: Co-rotating interaction regions, coronal-mass-ejection sheaths, and solar-wind/magnetosphere couplinga). *Physics of Plasmas*, **2006**, 13, 056505	2.1	38
47	The Freestream Turbulence Effect in Solar-Wind/Magnetosphere Coupling: Analysis Through the Solar Cycle and for Various Types of Solar Wind. *Geophysical Monograph Series*, **2006**, 59-76	1.1	11
46	The calm before the storm: On CIR/magnetosphere interactions: Occurrence statistics, solar wind statistics, and magnetospheric preconditioning. *Journal of Geophysical Research*, **2006**, 111,		97
45	Geomagnetic storms driven by ICME- and CIR-dominated solar wind. *Journal of Geophysical Research*, **2006**, 111,		182
44	Differences between CME-driven storms and CIR-driven storms. *Journal of Geophysical Research*, **2006**, 111,		359
43	A statistical comparison of hot-ion properties at geosynchronous orbit during intense and moderate geomagnetic storms at solar maximum and minimum. *Journal of Geophysical Research*, **2006**, 111,		18
42	Magnetosphere preconditioning under northward IMF: Evidence from the study of coronal mass ejection and corotating interaction region geoeffectiveness. *Journal of Geophysical Research*, **2006**, 111,		60
41	Effect of plasmaspheric drainage plumes on solar-wind/magnetosphere coupling. *Geophysical Research Letters*, **2006**, 33,	4.9	80
40	Nonequilibrium Phenomena in the Magnetosphere **2005**, 3-22		6
39	Alfvén-cyclotron fluctuations: Linear Vlasov theory. *Journal of Geophysical Research*, **2004**, 109,		75
38	Role of solar wind turbulence in the coupling of the solar wind to the Earth's magnetosphere. *Journal of Geophysical Research*, **2003**, 108,		118

37	MHD turbulence in the Earth's plasma sheet: Dynamics, dissipation, and driving. *Journal of Geophysical Research*, **2003**, 108,		131
36	Periodic magnetospheric substorms and their relationship with solar wind variations. *Journal of Geophysical Research*, **2003**, 108,		62
35	Multistep Dst development and ring current composition changes during the 4–5 June 1991 magnetic storm. *Journal of Geophysical Research*, **2002**, 107, SMP 33-1-SMP 33-22		95
34	Plasmaspheric observations at geosynchronous orbit. *Journal of Atmospheric and Solar-Terrestrial Physics*, **2001**, 63, 1185-1197	2	9
33	The dc electrical coupling of flow vortices and flow channels in the magnetosphere to the resistive ionosphere. *Journal of Geophysical Research*, **2001**, 106, 28967-28994		18
32	A linkage between polar patches and plasmaspheric drainage plumes. *Geophysical Research Letters*, **2001**, 28, 111-113	4.9	40
31	Dominant role of the asymmetric ring current in producing the stormtime Dst*. *Journal of Geophysical Research*, **2001**, 106, 10883-10904		243
30	A comprehensive survey of plasmasphere refilling at geosynchronous orbit. *Journal of Geophysical Research*, **2001**, 106, 25615-25629		33
29	Plasmaspheric material on high-latitude open field lines. *Journal of Geophysical Research*, **2001**, 106, 6085-6095		23
28	Particle acceleration in the dynamic magnetotail. *Physics of Plasmas*, **2000**, 7, 2149-2156	2.1	17
27	Plasmaspheric material at the reconnecting magnetopause. *Journal of Geophysical Research*, **2000**, 105, 7591-7600		44
26	Measurements of early and late time plasmasphere refilling as observed from geosynchronous orbit. *Journal of Geophysical Research*, **1999**, 104, 14691-14704		51
25	Solar wind density as a driver for the ring current in mild storms. *Geophysical Research Letters*, **1999**, 26, 1797-1800	4.9	29
24	Inner edge of the electron plasma sheet: Empirical models of boundary location. *Journal of Geophysical Research*, **1999**, 104, 22679-22693		27
23	Plasma sheet access to geosynchronous orbit. *Journal of Geophysical Research*, **1999**, 104, 25047-25061		160
22	Substorm electron injections: Geosynchronous observations and test particle simulations. *Journal of Geophysical Research*, **1998**, 103, 9235-9248		147
21	The driving of the plasma sheet by the solar wind. *Journal of Geophysical Research*, **1998**, 103, 17617-17639		283
20	Magnetospheric dynamics and mass flow during the November 1993 storm. *Journal of Geophysical Research*, **1998**, 103, 26373-26394		53

19	The transport of plasma sheet material from the distant tail to geosynchronous orbit. *Journal of Geophysical Research*, **1998**, 103, 20297-20331		102
18	Variability of the ring current source population. *Geophysical Research Letters*, **1998**, 25, 3481-3484	4.9	62
17	The morphological evolution and internal convection of E×B-drifting plasma clouds: Theory, dielectric-in-cell simulations, and N-body dielectric simulations. *Physics of Plasmas*, **1998**, 5, 3195-3223	2.1	8
16	The Earth's plasma sheet as a laboratory for flow turbulence in high-β MHD. *Journal of Plasma Physics*, **1997**, 57, 1-34	2.7	233
15	The fate of the outer plasmasphere. *Geophysical Research Letters*, **1997**, 24, 365-368	4.9	64
14	The superdense plasma sheet: Plasmaspheric origin, solar wind origin, or ionospheric origin?. *Journal of Geophysical Research*, **1997**, 102, 22089-22097		68
13	Substorm ion injections: Geosynchronous observations and test particle orbits in three-dimensional dynamic MHD fields. *Journal of Geophysical Research*, **1997**, 102, 2325-2341		128
12	Time dependence of substorm recurrence: An information-theoretic analysis. *Journal of Geophysical Research*, **1996**, 101, 15359-15369		25
11	The occurrence rate of magnetospheric-substorm onsets: Random and periodic substorms. *Journal of Geophysical Research*, **1993**, 98, 3807-3813		188
10	Auroral arc thicknesses as predicted by various theories. *Journal of Geophysical Research*, **1993**, 98, 6101-6138		266
9	Breaking of the first adiabatic invariants of charged particles in time-dependent magnetic fields: Computer simulations and theory. *Physical Review A*, **1991**, 43, 5605-5627	2.6	10
8	The magnetic pumping of plasmas with sawtooth waveforms. *Physics of Fluids B*, **1990**, 2, 1114-1127		5
7	Induced absorption of extraordinary (Z-mode) waves via electron pumping. *Physics of Fluids*, **1988**, 31, 700		2
6	The electrostatic two-stream instability driven by slab-shaped and cylindrical beams injected into plasmas. *Physics of Fluids*, **1988**, 31, 857		14
5	Magnetic pumping by magnetosonic waves in the presence of noncompressive electromagnetic fluctuations. *Physics of Fluids*, **1986**, 29, 3245		13
4	A study of the stochastic energization of charged particles with and without synchrotron energy loss. *Astrophysical Journal*, **1986**, 308, 929	4.7	30
3	The production of ion conics by oblique double layers. *Journal of Geophysical Research*, **1984**, 89, 2251		107
2	The simulation of plasma double-layer structures in two dimensions. *Journal of Plasma Physics*, **1983**, 29, 45-84	2.7	39

1 Magnetic pumping of particles in the outer Jovian magnetosphere. *Journal of Geophysical Research*, **1981**, 86, 3481 26