

# Joseph E Borovsky

## List of Publications by Citations

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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	Differences between CME-driven storms and CIR-driven storms. <i>Journal of Geophysical Research</i> , <b>2006</b> , 111,		359
161	The driving of the plasma sheet by the solar wind. <i>Journal of Geophysical Research</i> , <b>1998</b> , 103, 17617-17639		283
160	Auroral arc thicknesses as predicted by various theories. <i>Journal of Geophysical Research</i> , <b>1993</b> , 98, 6101-6138		266
159	Dominant role of the asymmetric ring current in producing the stormtime Dst*. <i>Journal of Geophysical Research</i> , <b>2001</b> , 106, 10883-10904		243
158	The Earth's plasma sheet as a laboratory for flow turbulence in high- $\beta$ MHD. <i>Journal of Plasma Physics</i> , <b>1997</b> , 57, 1-34	2.7	233
157	Flux tube texture of the solar wind: Strands of the magnetic carpet at 1 AU?. <i>Journal of Geophysical Research</i> , <b>2008</b> , 113, n/a-n/a		221
156	The occurrence rate of magnetospheric-substorm onsets: Random and periodic substorms. <i>Journal of Geophysical Research</i> , <b>1993</b> , 98, 3807-3813		188
155	Geomagnetic storms driven by ICME- and CIR-dominated solar wind. <i>Journal of Geophysical Research</i> , <b>2006</b> , 111,		182
154	Plasma sheet access to geosynchronous orbit. <i>Journal of Geophysical Research</i> , <b>1999</b> , 104, 25047-25061		160
153	Substorm electron injections: Geosynchronous observations and test particle simulations. <i>Journal of Geophysical Research</i> , <b>1998</b> , 103, 9235-9248		147
152	MHD turbulence in the Earth's plasma sheet: Dynamics, dissipation, and driving. <i>Journal of Geophysical Research</i> , <b>2003</b> , 108,		131
151	Substorm ion injections: Geosynchronous observations and test particle orbits in three-dimensional dynamic MHD fields. <i>Journal of Geophysical Research</i> , <b>1997</b> , 102, 2325-2341		128
150	Role of solar wind turbulence in the coupling of the solar wind to the Earth's magnetosphere. <i>Journal of Geophysical Research</i> , <b>2003</b> , 108,		118
149	What determines the reconnection rate at the dayside magnetosphere?. <i>Journal of Geophysical Research</i> , <b>2008</b> , 113, n/a-n/a		107
148	Altered solar wind-magnetosphere interaction at low Mach numbers: Coronal mass ejections. <i>Journal of Geophysical Research</i> , <b>2008</b> , 113, n/a-n/a		107
147	The production of ion conics by oblique double layers. <i>Journal of Geophysical Research</i> , <b>1984</b> , 89, 2251		107
146	Low-degree structure in Mercury's planetary magnetic field. <i>Journal of Geophysical Research</i> , <b>2012</b> , 117, n/a-n/a		103

145	The transport of plasma sheet material from the distant tail to geosynchronous orbit. <i>Journal of Geophysical Research</i> , <b>1998</b> , 103, 20297-20331		102
144	The calm before the storm in CIR/magnetosphere interactions: Occurrence statistics, solar wind statistics, and magnetospheric preconditioning. <i>Journal of Geophysical Research</i> , <b>2006</b> , 111,		97
143	Multistep Dst development and ring current composition changes during the 4 <sup>th</sup> June 1991 magnetic storm. <i>Journal of Geophysical Research</i> , <b>2002</b> , 107, SMP 33-1-SMP 33-22		95
142	Energetic electron precipitation during high-speed solar wind stream driven storms. <i>Journal of Geophysical Research</i> , <b>2011</b> , 116,		93
141	A statistical look at plasmaspheric drainage plumes. <i>Journal of Geophysical Research</i> , <b>2008</b> , 113, n/a-n/a		91
140	SPECTRAL INDICES FOR MULTI-DIMENSIONAL INTERPLANETARY TURBULENCE AT 1 AU. <i>Astrophysical Journal</i> , <b>2009</b> , 692, 684-693	4.7	83
139	Using the NARMAX approach to model the evolution of energetic electrons fluxes at geostationary orbit. <i>Geophysical Research Letters</i> , <b>2011</b> , 38, n/a-n/a	4.9	81
138	Relativistic-electron dropouts and recovery: A superposed epoch study of the magnetosphere and the solar wind. <i>Journal of Geophysical Research</i> , <b>2009</b> , 114, n/a-n/a		81
137	SPECTRAL SCALING LAWS IN MAGNETOHYDRODYNAMIC TURBULENCE SIMULATIONS AND IN THE SOLAR WIND. <i>Astrophysical Journal Letters</i> , <b>2011</b> , 741, L19	7.9	80
136	Effect of plasmaspheric drainage plumes on solar-wind/magnetosphere coupling. <i>Geophysical Research Letters</i> , <b>2006</b> , 33,	4.9	80
135	Solar wind turbulence and shear: A superposed-epoch analysis of corotating interaction regions at 1 AU. <i>Journal of Geophysical Research</i> , <b>2010</b> , 115, n/a-n/a		78
134	Alfvén-cyclotron fluctuations: Linear Vlasov theory. <i>Journal of Geophysical Research</i> , <b>2004</b> , 109,		75
133	A new four-plasma categorization scheme for the solar wind. <i>Journal of Geophysical Research: Space Physics</i> , <b>2015</b> , 120, 70-100	2.6	73
132	The rudiments of a theory of solar wind/magnetosphere coupling derived from first principles. <i>Journal of Geophysical Research</i> , <b>2008</b> , 113, n/a-n/a		71
131	Properties of asymmetric magnetic reconnection. <i>Physics of Plasmas</i> , <b>2008</b> , 15, 032101	2.1	69
130	Contribution of strong discontinuities to the power spectrum of the solar wind. <i>Physical Review Letters</i> , <b>2010</b> , 105, 111102	7.4	68
129	A KINETIC ALFVÉN WAVE CASCADE SUBJECT TO COLLISIONLESS DAMPING CANNOT REACH ELECTRON SCALES IN THE SOLAR WIND AT 1 AU. <i>Astrophysical Journal</i> , <b>2010</b> , 712, 685-691	4.7	68
128	The superdense plasma sheet: Plasmaspheric origin, solar wind origin, or ionospheric origin?. <i>Journal of Geophysical Research</i> , <b>1997</b> , 102, 22089-22097		68

127	The velocity and magnetic field fluctuations of the solar wind at 1 AU: Statistical analysis of Fourier spectra and correlations with plasma properties. <i>Journal of Geophysical Research</i> , <b>2012</b> , 117, n/a-n/a		64
126	The fate of the outer plasmasphere. <i>Geophysical Research Letters</i> , <b>1997</b> , 24, 365-368	4.9	64
125	The reconnection of magnetic fields between plasmas with different densities: Scaling relations. <i>Physics of Plasmas</i> , <b>2007</b> , 14, 102309	2.1	62
124	Periodic magnetospheric substorms and their relationship with solar wind variations. <i>Journal of Geophysical Research</i> , <b>2003</b> , 108,		62
123	Variability of the ring current source population. <i>Geophysical Research Letters</i> , <b>1998</b> , 25, 3481-3484	4.9	62
122	Magnetosphere preconditioning under northward IMF: Evidence from the study of coronal mass ejection and corotating interaction region geoeffectiveness. <i>Journal of Geophysical Research</i> , <b>2006</b> , 111,		60
121	On the variations of the solar wind magnetic field about the Parker spiral direction. <i>Journal of Geophysical Research</i> , <b>2010</b> , 115, n/a-n/a		59
120	Strong bulk plasma acceleration in Earth's magnetosheath: A magnetic slingshot effect?. <i>Geophysical Research Letters</i> , <b>2007</b> , 34,	4.9	56
119	The analysis of electron fluxes at geosynchronous orbit employing a NARMAX approach. <i>Journal of Geophysical Research: Space Physics</i> , <b>2013</b> , 118, 1500-1513	2.6	55
118	Superposed epoch analysis of high-speed-stream effects at geosynchronous orbit: Hot plasma, cold plasma, and the solar wind. <i>Journal of Geophysical Research</i> , <b>2008</b> , 113, n/a-n/a		54
117	Physical improvements to the solar wind reconnection control function for the Earth's magnetosphere. <i>Journal of Geophysical Research: Space Physics</i> , <b>2013</b> , 118, 2113-2121	2.6	53
116	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. <i>Journal of Geophysical Research</i> , <b>2010</b> , 115, n/a-n/a		53
115	Magnetospheric dynamics and mass flow during the November 1993 storm. <i>Journal of Geophysical Research</i> , <b>1998</b> , 103, 26373-26394		53
114	Scaling of asymmetric reconnection in compressible plasmas. <i>Physics of Plasmas</i> , <b>2010</b> , 17, 052108	2.1	52
113	Measurements of early and late time plasmasphere refilling as observed from geosynchronous orbit. <i>Journal of Geophysical Research</i> , <b>1999</b> , 104, 14691-14704		51
112	The solar wind electric field does not control the dayside reconnection rate. <i>Journal of Geophysical Research: Space Physics</i> , <b>2014</b> , 119, 751-760	2.6	50
111	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. <i>Journal of Geophysical Research: Space Physics</i> , <b>2013</b> , 118, 5695-5719	2.6	50
110	CPIC: A Curvilinear Particle-in-Cell Code for Plasma-Material Interaction Studies. <i>IEEE Transactions on Plasma Science</i> , <b>2013</b> , 41, 3577-3587	1.3	46

109	The plasma structure of coronal hole solar wind: Origins and evolution. <i>Journal of Geophysical Research: Space Physics</i> , <b>2016</b> , 121, 5055-5087	2.6	45
108	Polar cap potential saturation, dayside reconnection, and changes to the magnetosphere. <i>Journal of Geophysical Research</i> , <b>2009</b> , 114, n/a-n/a		44
107	Plasmaspheric material at the reconnecting magnetopause. <i>Journal of Geophysical Research</i> , <b>2000</b> , 105, 7591-7600		44
106	Asymmetry of magnetosheath flows and magnetopause shape during low Alfvén Mach number solar wind. <i>Journal of Geophysical Research: Space Physics</i> , <b>2013</b> , 118, 1089-1100	2.6	41
105	The superdense plasma sheet in the magnetosphere during high-speed-stream-driven storms: Plasma transport timescales. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , <b>2009</b> , 71, 1045-1058	2	40
104	A linkage between polar patches and plasmaspheric drainage plumes. <i>Geophysical Research Letters</i> , <b>2001</b> , 28, 111-113	4.9	40
103	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. <i>Journal of Geophysical Research</i> , <b>2012</b> , 117, n/a-n/a		39
102	The simulation of plasma double-layer structures in two dimensions. <i>Journal of Plasma Physics</i> , <b>1983</b> , 29, 45-84	2.7	39
101	Electron loss rates from the outer radiation belt caused by the filling of the outer plasmasphere: The calm before the storm. <i>Journal of Geophysical Research</i> , <b>2009</b> , 114, n/a-n/a		38
100	Eddy viscosity and flow properties of the solar wind: Co-rotating interaction regions, coronal-mass-ejection sheaths, and solar-wind/magnetosphere coupling). <i>Physics of Plasmas</i> , <b>2006</b> , 13, 056505	2.1	38
99	Substorm occurrence rates, substorm recurrence times, and solar wind structure. <i>Journal of Geophysical Research: Space Physics</i> , <b>2017</b> , 122, 2973-2998	2.6	37
98	Classification of Solar Wind With Machine Learning. <i>Journal of Geophysical Research: Space Physics</i> , <b>2017</b> , 122, 10,910	2.6	34
97	An improved empirical model of electron and ion fluxes at geosynchronous orbit based on upstream solar wind conditions. <i>Space Weather</i> , <b>2016</b> , 14, 511-523	3.7	34
96	A comprehensive survey of plasmasphere refilling at geosynchronous orbit. <i>Journal of Geophysical Research</i> , <b>2001</b> , 106, 25615-25629		33
95	The Earth's Magnetosphere: A Systems Science Overview and Assessment. <i>Surveys in Geophysics</i> , <b>2018</b> , 39, 817-859	7.6	32
94	Canonical correlation analysis of the combined solar wind and geomagnetic index data sets. <i>Journal of Geophysical Research: Space Physics</i> , <b>2014</b> , 119, 5364-5381	2.6	32
93	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. <i>Journal of Geophysical Research: Space Physics</i> , <b>2014</b> , 119, 4307-4334	2.6	31
92	An empirical model of electron and ion fluxes derived from observations at geosynchronous orbit. <i>Space Weather</i> , <b>2015</b> , 13, 233-249	3.7	31

91	A density-temperature description of the outer electron radiation belt during geomagnetic storms. <i>Journal of Geophysical Research</i> , <b>2010</b> , 115, n/a-n/a		31
90	The effect of sudden wind shear on the Earth's magnetosphere: Statistics of wind shear events and CCMC simulations of magnetotail disconnections. <i>Journal of Geophysical Research</i> , <b>2012</b> , 117, n/a-n/a		30
89	A study of the stochastic energization of charged particles with and without synchrotron energy loss. <i>Astrophysical Journal</i> , <b>1986</b> , 308, 929	4.7	30
88	Entropy mapping of the outer electron radiation belt between the magnetotail and geosynchronous orbit. <i>Journal of Geophysical Research</i> , <b>2011</b> , 116, n/a-n/a		29
87	Solar wind density as a driver for the ring current in mild storms. <i>Geophysical Research Letters</i> , <b>1999</b> , 26, 1797-1800	4.9	29
86	Nine Outstanding Questions of Solar Wind Physics. <i>Journal of Geophysical Research: Space Physics</i> , <b>2020</b> , 125, e2018JA026005	2.6	28
85	Long-lived plasmaspheric drainage plumes: Where does the plasma come from?. <i>Journal of Geophysical Research: Space Physics</i> , <b>2014</b> , 119, 6496-6520	2.6	27
84	NO EVIDENCE FOR HEATING OF THE SOLAR WIND AT STRONG CURRENT SHEETS. <i>Astrophysical Journal Letters</i> , <b>2011</b> , 739, L61	7.9	27
83	Inner edge of the electron plasma sheet: Empirical models of boundary location. <i>Journal of Geophysical Research</i> , <b>1999</b> , 104, 22679-22693		27
82	Is the Dst Index Sufficient to Define All Geospace Storms?. <i>Journal of Geophysical Research: Space Physics</i> , <b>2017</b> , 122, 11,543-11,547	2.6	26
81	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?. <i>Journal of Geophysical Research: Space Physics</i> , <b>2014</b> , 119, 5210-5219	2.6	26
80	Physics-based solar wind driver functions for the magnetosphere: Combining the reconnection-coupled MHD generator with the viscous interaction. <i>Journal of Geophysical Research: Space Physics</i> , <b>2013</b> , 118, 7119-7150	2.6	26
79	Magnetic pumping of particles in the outer Jovian magnetosphere. <i>Journal of Geophysical Research</i> , <b>1981</b> , 86, 3481		26
78	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. <i>Journal of Geophysical Research</i> , <b>2010</b> , 115, n/a-n/a		25
77	Time dependence of substorm recurrence: An information-theoretic analysis. <i>Journal of Geophysical Research</i> , <b>1996</b> , 101, 15359-15369		25
76	Influence of epoch time selection on the results of superposed epoch analysis using ACE and MPA data. <i>Journal of Geophysical Research</i> , <b>2008</b> , 113, n/a-n/a		24
75	Looking for evidence of mixing in the solar wind from 0.31 to 0.98 AU. <i>Journal of Geophysical Research</i> , <b>2012</b> , 117, n/a-n/a		23
74	Plasmaspheric material on high-latitude open field lines. <i>Journal of Geophysical Research</i> , <b>2001</b> , 106, 6085-6095		23

73	High-Speed Solar Wind Streams: A Call for Key Research. <i>Eos</i> , <b>2008</b> , 89, 62	1.5	22
72	The trailing edges of high-speed streams at 1 AU. <i>Journal of Geophysical Research: Space Physics</i> , <b>2016</b> , 121, 6107-6140	2.6	21
71	A survey of the anisotropy of the outer electron radiation belt during high-speed-stream-driven storms. <i>Journal of Geophysical Research</i> , <b>2011</b> , 116,		21
70	Tracing solar wind plasma entry into the magnetosphere using ion-to-electron temperature ratio. <i>Geophysical Research Letters</i> , <b>2009</b> , 36,	4.9	21
69	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. <i>Journal of Geophysical Research: Space Physics</i> , <b>2017</b> , 122, 11,961-11,990	2.6	20
68	The spatial structure of the oncoming solar wind at Earth and the shortcomings of a solar-wind monitor at L1. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , <b>2018</b> , 177, 2-11	2	20
67	The differences between storms driven by helmet streamer CIRs and storms driven by pseudostreamer CIRs. <i>Journal of Geophysical Research: Space Physics</i> , <b>2013</b> , 118, 5506-5521	2.6	20
66	Damping of long-wavelength kinetic Alfvén fluctuations: Linear theory. <i>Journal of Geophysical Research</i> , <b>2008</b> , 113, n/a-n/a		20
65	Preface: Unsolved problems of magnetospheric physics. <i>Journal of Geophysical Research: Space Physics</i> , <b>2016</b> , 121, 10,783-10,785	2.6	19
64	Evolution of mass density and O <sup>+</sup> concentration at geostationary orbit during storm and quiet events. <i>Journal of Geophysical Research: Space Physics</i> , <b>2014</b> , 119, 6417-6431	2.6	18
63	A statistical comparison of hot-ion properties at geosynchronous orbit during intense and moderate geomagnetic storms at solar maximum and minimum. <i>Journal of Geophysical Research</i> , <b>2006</b> , 111,		18
62	The dc electrical coupling of flow vortices and flow channels in the magnetosphere to the resistive ionosphere. <i>Journal of Geophysical Research</i> , <b>2001</b> , 106, 28967-28994		18
61	The proton and electron radiation belts at geosynchronous orbit: Statistics and behavior during high-speed stream-driven storms. <i>Journal of Geophysical Research: Space Physics</i> , <b>2016</b> , 121, 5449-5488	2.6	17
60	On shear viscosity and the Reynolds number of magnetohydrodynamic turbulence in collisionless magnetized plasmas: Coulomb collisions, Landau damping, and Bohm diffusion. <i>Physics of Plasmas</i> , <b>2009</b> , 16, 082307	2.1	17
59	The role of compressibility in energy release by magnetic reconnection. <i>Physics of Plasmas</i> , <b>2012</b> , 19, 082109	2.1	17
58	Particle acceleration in the dynamic magnetotail. <i>Physics of Plasmas</i> , <b>2000</b> , 7, 2149-2156	2.1	17
57	Compressional perturbations of the dayside magnetosphere during high-speed-stream-driven geomagnetic storms. <i>Journal of Geophysical Research: Space Physics</i> , <b>2016</b> , 121, 4569-4589	2.6	16
56	Future beam experiments in the magnetosphere with plasma contactors: The electron collection and ion emission routes. <i>Journal of Geophysical Research: Space Physics</i> , <b>2015</b> , 120, 3588-3602	2.6	14

55	On the Origins of the Intercorrelations Between Solar Wind Variables. <i>Journal of Geophysical Research: Space Physics</i> , <b>2018</b> , 123, 20-29	2.6	14
54	Systems science of the magnetosphere: Creating indices of substorm activity, of the substorm-injected electron population, and of the electron radiation belt. <i>Journal of Geophysical Research: Space Physics</i> , <b>2017</b> , 122, 10,012-10,035	2.6	14
53	The electrostatic two-stream instability driven by slab-shaped and cylindrical beams injected into plasmas. <i>Physics of Fluids</i> , <b>1988</b> , 31, 857		14
52	Quiescent Discrete Auroral Arcs: A Review of Magnetospheric Generator Mechanisms. <i>Space Science Reviews</i> , <b>2020</b> , 216, 1	7.5	14
51	Exploring the effect of current sheet thickness on the high-frequency Fourier spectrum breakpoint of the solar wind. <i>Journal of Geophysical Research: Space Physics</i> , <b>2015</b> , 120, 9256-9268	2.6	13
50	Electron-ion Coulomb scattering and the electron Landau damping of Alfvén waves in the solar wind. <i>Journal of Geophysical Research</i> , <b>2011</b> , 116, n/a-n/a		13
49	Magnetic pumping by magnetosonic waves in the presence of noncompressive electromagnetic fluctuations. <i>Physics of Fluids</i> , <b>1986</b> , 29, 3245		13
48	Magnetic Connectivity in the Corona as a Source of Structure in the Solar Wind. <i>Journal of Geophysical Research: Space Physics</i> , <b>2019</b> , 124, 32-49	2.6	12
47	Future beam experiments in the magnetosphere with plasma contactors: How do we get the charge off the spacecraft?. <i>Journal of Geophysical Research: Space Physics</i> , <b>2015</b> , 120, 3647-3664	2.6	12
46	The response of the inner magnetosphere to the trailing edges of high-speed solar-wind streams. <i>Journal of Geophysical Research: Space Physics</i> , <b>2017</b> , 122, 501-516	2.6	11
45	Some Properties of the Solar Wind Turbulence at 1 AU Statistically Examined in the Different Types of Solar Wind Plasma. <i>Journal of Geophysical Research: Space Physics</i> , <b>2019</b> , 124, 2406	2.6	11
44	Optical Measurements of the Fine Structure of Auroral Arcs. <i>Geophysical Monograph Series</i> , <b>2013</b> , 25-30	1.1	11
43	Geophysics. Feedback of the magnetosphere. <i>Science</i> , <b>2014</b> , 343, 1086-7	33.3	11
42	The Freestream Turbulence Effect in Solar-Wind/Magnetosphere Coupling: Analysis Through the Solar Cycle and for Various Types of Solar Wind. <i>Geophysical Monograph Series</i> , <b>2006</b> , 59-76	1.1	11
41	What magnetospheric and ionospheric researchers should know about the solar wind. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , <b>2020</b> , 204, 105271	2	11
40	Patch Size Evolution During Pulsating Aurora. <i>Journal of Geophysical Research: Space Physics</i> , <b>2019</b> , 124, 4725-4738	2.6	10
39	Can an electron gun solve the outstanding problem of magnetosphere-ionosphere connectivity?. <i>Journal of Geophysical Research: Space Physics</i> , <b>2016</b> , 121, 6769-6773	2.6	10
38	Statistically measuring the amount of pitch angle scattering that energetic electrons undergo as they drift across the plasmaspheric drainage plume at geosynchronous orbit. <i>Journal of Geophysical Research: Space Physics</i> , <b>2014</b> , 119, 1814-1826	2.6	10



37	No evidence for the localized heating of solar wind protons at intense velocity shear zones. <i>Journal of Geophysical Research: Space Physics</i> , <b>2014</b> , 119, 1455-1462	2.6	10
36	Breaking of the first adiabatic invariants of charged particles in time-dependent magnetic fields: Computer simulations and theory. <i>Physical Review A</i> , <b>1991</b> , 43, 5605-5627	2.6	10
35	The Magnetic Structure of the Solar Wind: Ionic Composition and the Electron Strahl. <i>Geophysical Research Letters</i> , <b>2020</b> , 47, e2019GL084586	4.9	10
34	Active Experiments in Space: The Future. <i>Frontiers in Astronomy and Space Sciences</i> , <b>2019</b> , 6,	3.8	9
33	Outstanding questions in magnetospheric plasma physics: The pollenzo view. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , <b>2020</b> , 208, 105377	2	9
32	On the Motion of the Heliospheric Magnetic Structure Through the Solar Wind Plasma. <i>Journal of Geophysical Research: Space Physics</i> , <b>2020</b> , 125, e2019JA027377	2.6	9
31	Exploration of a Composite Index to Describe Magnetospheric Activity: Reduction of the Magnetospheric State Vector to a Single Scalar. <i>Journal of Geophysical Research: Space Physics</i> , <b>2018</b> , 123, 7384-7412	2.6	9
30	Plasmaspheric observations at geosynchronous orbit. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , <b>2001</b> , 63, 1185-1197	2	9
29	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. <i>Journal of Geophysical Research</i> , <b>2011</b> , 116, n/a-n/a		8
28	The morphological evolution and internal convection of EB-drifting plasma clouds: Theory, dielectric-in-cell simulations, and N-body dielectric simulations. <i>Physics of Plasmas</i> , <b>1998</b> , 5, 3195-3223	2.1	8
27	A Statistical Analysis of the Fluctuations in the Upstream and Downstream Plasmas of 109 Strong-Compression Interplanetary Shocks at 1 AU. <i>Journal of Geophysical Research: Space Physics</i> , <b>2020</b> , 125, e2019JA027518	2.6	7
26	Spacecraft-Charging Mitigation of a High-Power Electron Beam Emitted by a Magnetospheric Spacecraft: Simple Theoretical Model for the Transient of the Spacecraft Potential. <i>Journal of Geophysical Research: Space Physics</i> , <b>2018</b> , 123, 6424-6442	2.6	7
25	Relationship between the durations of jumps in solar wind time series and the frequency of the spectral break. <i>Journal of Geophysical Research: Space Physics</i> , <b>2016</b> , 121, 1817-1838	2.6	7
24	Electrical conductivity channels in the atmosphere produced by relativistic-electron microbursts from the magnetosphere. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , <b>2017</b> , 155, 22-26	2	6
23	Plasma and Magnetic-Field Structure of the Solar Wind at Inertial-Range Scale Sizes Discerned From Statistical Examinations of the Time-Series Measurements. <i>Frontiers in Astronomy and Space Sciences</i> , <b>2020</b> , 7,	3.8	6
22	The Strong-Double-Layer Model of Auroral Arcs: an Assessment. <i>Geophysical Monograph Series</i> , <b>2013</b> , 113-120	1.1	6
21	Observations and modeling of magnetic flux tube refilling of the plasmasphere at geosynchronous orbit. <i>Journal of Geophysical Research: Space Physics</i> , <b>2014</b> , 119, 9246-9255	2.6	6
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