

# Joseph E Borovsky

## List of Publications by Year in descending order

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182  
papers

9,130  
citations

26567

56  
h-index

48187

88  
g-index

192  
all docs

192  
docs citations

192  
times ranked

3261  
citing authors

#	ARTICLE	IF	CITATIONS
1	Differences between CME-driven storms and CIR-driven storms. Journal of Geophysical Research, 2006, 111, .	3.3	443
2	The driving of the plasma sheet by the solar wind. Journal of Geophysical Research, 1998, 103, 17617-17639.	3.3	324
3	Auroral arc thicknesses as predicted by various theories. Journal of Geophysical Research, 1993, 98, 6101-6138.	3.3	306
4	Dominant role of the asymmetric ring current in producing the stormtimeDst*. Journal of Geophysical Research, 2001, 106, 10883-10904.	3.3	288
5	Flux tube texture of the solar wind: Strands of the magnetic carpet at 1 AU?. Journal of Geophysical Research, 2008, 113, .	3.3	282
6	The Earth's plasma sheet as a laboratory for flow turbulence in high- $\hat{r}^2$ MHD. Journal of Plasma Physics, 1997, 57, 1-34.	0.7	265
7	The occurrence rate of magnetospheric substorm onsets: Random and periodic substorms. Journal of Geophysical Research, 1993, 98, 3807-3813.	3.3	215
8	Geomagnetic storms driven by ICME- and CIR-dominated solar wind. Journal of Geophysical Research, 2006, 111, .	3.3	199
9	Plasma sheet access to geosynchronous orbit. Journal of Geophysical Research, 1999, 104, 25047-25061.	3.3	176
10	Substorm electron injections: Geosynchronous observations and test particle simulations. Journal of Geophysical Research, 1998, 103, 9235-9248.	3.3	172
11	MHD turbulence in the Earth's plasma sheet: Dynamics, dissipation, and driving. Journal of Geophysical Research, 2003, 108, .	3.3	163
12	Substorm ion injections: Geosynchronous observations and test particle orbits in three-dimensional dynamic MHD fields. Journal of Geophysical Research, 1997, 102, 2325-2341.	3.3	145
13	Low-degree structure in Mercury's planetary magnetic field. Journal of Geophysical Research, 2012, 117, .	3.3	131
14	Role of solar wind turbulence in the coupling of the solar wind to the Earth's magnetosphere. Journal of Geophysical Research, 2003, 108, .	3.3	130
15	What determines the reconnection rate at the dayside magnetosphere?. Journal of Geophysical Research, 2008, 113, .	3.3	127
16	Altered solar wind-magnetosphere interaction at low Mach numbers: Coronal mass ejections. Journal of Geophysical Research, 2008, 113, .	3.3	126
17	The transport of plasma sheet material from the distant tail to geosynchronous orbit. Journal of Geophysical Research, 1998, 103, 20297-20331.	3.3	123
18	The production of ion conics by oblique double layers. Journal of Geophysical Research, 1984, 89, 2251-2266.	3.3	115

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19	A statistical look at plasmaspheric drainage plumes. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	110
20	Energetic electron precipitation during high-speed solar wind stream driven storms. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	110
21	MultistepDstdevelopment and ring current composition changes during the 4-6 June 1991 magnetic storm. <i>Journal of Geophysical Research</i> , 2002, 107, SMP 33-1-SMP 33-22.	3.3	108
22	Using the NARMAX approach to model the evolution of energetic electrons fluxes at geostationary orbit. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	1.5	105
23	The "calm before the storm" in CIR/magnetosphere interactions: Occurrence statistics, solar wind statistics, and magnetospheric preconditioning. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	104
24	A new fourâ€plasma categorization scheme for the solar wind. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 70-100.	0.8	95
25	SPECTRAL SCALING LAWS IN MAGNETOHYDRODYNAMIC TURBULENCE SIMULATIONS AND IN THE SOLAR WIND. <i>Astrophysical Journal Letters</i> , 2011, 741, L19.	3.0	92
26	SPECTRAL INDICES FOR MULTI-DIMENSIONAL INTERPLANETARY TURBULENCE AT 1 AU. <i>Astrophysical Journal</i> , 2009, 692, 684-693.	1.6	89
27	Solar wind turbulence and shear: A superposedâ€epoch analysis of corotating interaction regions at 1 AU. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	89
28	Effect of plasmaspheric drainage plumes on solar-wind/magnetosphere coupling. <i>Geophysical Research Letters</i> , 2006, 33, .	1.5	88
29	Relativisticâ€electron dropouts and recovery: A superposed epoch study of the magnetosphere and the solar wind. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	85
30	AlfvÃ©n-cyclotron fluctuations: Linear Vlasov theory. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	84
31	The rudiments of a theory of solar wind/magnetosphere coupling derived from first principles. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	83
32	Contribution of Strong Discontinuities to the Power Spectrum of the Solar Wind. <i>Physical Review Letters</i> , 2010, 105, 111102.	2.9	83
33	The superdense plasma sheet: Plasmaspheric origin, solar wind origin, or ionospheric origin?. <i>Journal of Geophysical Research</i> , 1997, 102, 22089-22097.	3.3	80
34	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> , 2012, 117, .	3.3	80
35	CPIC: A Curvilinear Particle-in-Cell Code for Plasmaâ€Material Interaction Studies. <i>IEEE Transactions on Plasma Science</i> , 2013, 41, 3577-3587.	0.6	80
36	Nine Outstanding Questions of Solar Wind Physics. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2018JA026005.	0.8	77

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37	The fate of the outer plasmasphere. <i>Geophysical Research Letters</i> , 1997, 24, 365-368.	1.5	74
38	Periodic magnetospheric substorms and their relationship with solar wind variations. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	73
39	A KINETIC ALFVÉN WAVE CASCADE SUBJECT TO COLLISIONLESS DAMPING CANNOT REACH ELECTRON SCALES IN THE SOLAR WIND AT 1 AU. <i>Astrophysical Journal</i> , 2010, 712, 685-691.	1.6	73
40	On the variations of the solar wind magnetic field about the Parker spiral direction. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	73
41	Magnetosphere preconditioning under northward IMF: Evidence from the study of coronal mass ejection and corotating interaction region geoeffectiveness. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	72
42	The solar wind electric field does not control the dayside reconnection rate. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 751-760.	0.8	72
43	Properties of asymmetric magnetic reconnection. <i>Physics of Plasmas</i> , 2008, 15, .	0.7	71
44	The Earth's Magnetosphere: A Systems Science Overview and Assessment. <i>Surveys in Geophysics</i> , 2018, 39, 817-859.	2.1	70
45	The analysis of electron fluxes at geosynchronous orbit employing a NARMAX approach. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 1500-1513.	0.8	68
46	Variability of the ring current source population. <i>Geophysical Research Letters</i> , 1998, 25, 3481-3484.	1.5	67
47	The reconnection of magnetic fields between plasmas with different densities: Scaling relations. <i>Physics of Plasmas</i> , 2007, 14, .	0.7	64
48	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> , 2010, 115, .	3.3	64
49	The plasma structure of coronal hole solar wind: Origins and evolution. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 5055-5087.	0.8	64
50	Estimating the effects of ionospheric plasma on solar wind/magnetosphere coupling via mass loading of dayside reconnection: Ionospheric sheet oxygen, plasmaspheric drainage plumes, and the plasma cloak. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 5695-5719.	0.8	63
51	Measurements of early and late time plasmasphere refilling as observed from geosynchronous orbit. <i>Journal of Geophysical Research</i> , 1999, 104, 14691-14704.	3.3	61
52	Strong bulk plasma acceleration in Earth's magnetosheath: A magnetic slingshot effect?. <i>Geophysical Research Letters</i> , 2007, 34, .	1.5	61
53	Physical improvements to the solar wind reconnection control function for the Earth's magnetosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 2113-2121.	0.8	61
54	Scaling of asymmetric reconnection in compressible plasmas. <i>Physics of Plasmas</i> , 2010, 17, .	0.7	58

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55	Magnetospheric dynamics and mass flow during the November 1993 storm. <i>Journal of Geophysical Research</i> , 1998, 103, 26373-26394.	3.3	57
56	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> , 2008, 113, .	3.3	56
57	Polar cap potential saturation, dayside reconnection, and changes to the magnetosphere. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	54
58	Substorm occurrence rates, substorm recurrence times, and solar wind structure. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 2973-2998.	0.8	54
59	Classification of Solar Wind With Machine Learning. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 10,910.	0.8	54
60	Plasmaspheric material at the reconnecting magnetopause. <i>Journal of Geophysical Research</i> , 2000, 105, 7591-7600.	3.3	49
61	Asymmetry of magnetosheath flows and magnetopause shape during low Alfvén Mach number solar wind. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 1089-1100.	0.8	49
62	A linkage between polar patches and plasmaspheric drainage plumes. <i>Geophysical Research Letters</i> , 2001, 28, 111-113.	1.5	45
63	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> , 2012, 117, .	3.3	44
64	An empirical model of electron and ion fluxes derived from observations at geosynchronous orbit. <i>Space Weather</i> , 2015, 13, 233-249.	1.3	44
65	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> , 2006, 13, 056505.	0.7	43
66	Is the <i>Dst</i> Index Sufficient to Define All Geospace Storms?. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 11,543.	0.8	43
67	The simulation of plasma double-layer structures in two dimensions. <i>Journal of Plasma Physics</i> , 1983, 29, 45-84.	0.7	42
68	An improved empirical model of electron and ion fluxes at geosynchronous orbit based on upstream solar wind conditions. <i>Space Weather</i> , 2016, 14, 511-523.	1.3	42
69	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> , 2009, 71, 1045-1058.	0.6	41
70	Canonical correlation analysis of the combined solar wind and geomagnetic index data sets. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 5364-5381.	0.8	41
71	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> , 2009, 114, .	3.3	40
72	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> , 2014, 119, 4307-4334.	0.8	40

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73	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> , 2012, 117, .	3.3	38
74	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> , 2018, 177, 2-11.	0.6	38
75	A comprehensive survey of plasmasphere refilling at geosynchronous orbit. <i>Journal of Geophysical Research</i> , 2001, 106, 25615-25629.	3.3	37
76	What magnetospheric and ionospheric researchers should know about the solar wind. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2020, 204, 105271.	0.6	35
77	Solar wind density as a driver for the ring current in mild storms. <i>Geophysical Research Letters</i> , 1999, 26, 1797-1800.	1.5	31
78	A density-temperature description of the outer electron radiation belt during geomagnetic storms. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	31
79	Entropy mapping of the outer electron radiation belt between the magnetotail and geosynchronous orbit. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a.	3.3	31
80	Long-lived plasmaspheric drainage plumes: Where does the plasma come from?. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 6496-6520.	0.8	31
81	Quiescent Discrete Auroral Arcs: A Review of Magnetospheric Generator Mechanisms. <i>Space Science Reviews</i> , 2020, 216, 1.	3.7	31
82	Inner edge of the electron plasma sheet: Empirical models of boundary location. <i>Journal of Geophysical Research</i> , 1999, 104, 22679-22693.	3.3	30
83	NO EVIDENCE FOR HEATING OF THE SOLAR WIND AT STRONG CURRENT SHEETS. <i>Astrophysical Journal Letters</i> , 2011, 739, L61.	3.0	30
84	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> , 2013, 118, 7119-7150.	0.8	30
85	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> , 2014, 119, 5210-5219.	0.8	30
86	A study of the stochastic energization of charged particles with and without synchrotron energy loss. <i>Astrophysical Journal</i> , 1986, 308, 929.	1.6	30
87	The trailing edges of high-speed streams at 1 AU. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 6107-6140.	0.8	29
88	Plasmaspheric material on high-latitude open field lines. <i>Journal of Geophysical Research</i> , 2001, 106, 6085-6095.	3.3	28
89	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> , 2017, 122, 11,961.	0.8	28
90	Magnetic pumping of particles in the outer Jovian magnetosphere. <i>Journal of Geophysical Research</i> , 1981, 86, 3481-3495.	3.3	27

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91	Time dependence of substorm recurrence: An information-theoretic analysis. <i>Journal of Geophysical Research</i> , 1996, 101, 15359-15369.	3.3	27
92	Influence of epoch time selection on the results of superposed epoch analysis using ACE and MPA data. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	27
93	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> , 2010, 115, .	3.3	27
94	Looking for evidence of mixing in the solar wind from 0.31 to 0.98 AU. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	27
95	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> , 2019, 124, 2406-2424.	0.8	27
96	The impact of cold electrons and cold ions in magnetospheric physics. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2021, 220, 105599.	0.6	27
97	The dc electrical coupling of flow vortices and flow channels in the magnetosphere to the resistive ionosphere. <i>Journal of Geophysical Research</i> , 2001, 106, 28967-28994.	3.3	26
98	Damping of long-wavelength kinetic Alfvén fluctuations: Linear theory. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	25
99	Tracing solar wind plasma entry into the magnetosphere using ion-to-electron temperature ratio. <i>Geophysical Research Letters</i> , 2009, 36, .	1.5	24
100	Preface: Unsolved problems of magnetospheric physics. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 10,783.	0.8	23
101	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> , 2017, 122, 10,012.	0.8	23
102	High-Speed Solar Wind Streams: A Call for Key Research. <i>Eos</i> , 2008, 89, 62.	0.1	22
103	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> , 2009, 16, .	0.7	22
104	A survey of the anisotropy of the outer electron radiation belt during high-speed-stream-driven storms. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	22
105	On the Origins of the Intercorrelations Between Solar Wind Variables. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 20-29.	0.8	22
106	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> , 2014, 119, 6417-6431.	0.8	21
107	Can an electron gun solve the outstanding problem of magnetosphere-ionosphere connectivity?. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 6769-6773.	0.8	21
108	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> , 2016, 121, 5449-5488.	0.8	21

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109	Active Experiments in Space: The Future. <i>Frontiers in Astronomy and Space Sciences</i> , 2019, 6, .	1.1	21
110	Particle acceleration in the dynamic magnetotail. <i>Physics of Plasmas</i> , 2000, 7, 2149-2156.	0.7	20
111	The differences between storms driven by helmet streamer CIRs and storms driven by pseudostreamer CIRs. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 5506-5521.	0.8	20
112	On the Motion of the Heliospheric Magnetic Structure Through the Solar Wind Plasma. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA027377.	0.8	20
113	The Magnetic Structure of the Solar Wind: Ionic Composition and the Electron Strahl. <i>Geophysical Research Letters</i> , 2020, 47, e2019GL084586.	1.5	20
114	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> , 2006, 111, .	3.3	19
115	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> , 2015, 120, 3647-3664.	0.8	19
116	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> , 2015, 120, 9256-9268.	0.8	19
117	Future beam experiments in the magnetosphere with plasma contactors: The electron collection and ion emission routes. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 3588-3602.	0.8	19
118	Is Our Understanding of Solar-Wind/Magnetosphere Coupling Satisfactory?. <i>Frontiers in Astronomy and Space Sciences</i> , 2021, 8, .	1.1	19
119	The role of compressibility in energy release by magnetic reconnection. <i>Physics of Plasmas</i> , 2012, 19, .	0.7	18
120	Compressional perturbations of the dayside magnetosphere during high-speed stream-driven geomagnetic storms. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 4569-4589.	0.8	18
121	Magnetic pumping by magnetosonic waves in the presence of noncompressive electromagnetic fluctuations. <i>Physics of Fluids</i> , 1986, 29, 3245.	1.4	17
122	The electrostatic two-stream instability driven by slab-shaped and cylindrical beams injected into plasmas. <i>Physics of Fluids</i> , 1988, 31, 857.	1.4	16
123	Optical Measurements of the Fine Structure of Auroral Arcs. <i>Geophysical Monograph Series</i> , 2013, , 25-30.	0.1	16
124	Magnetic Connectivity in the Corona as a Source of Structure in the Solar Wind. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 32-49.	0.8	16
125	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> , 2020, 7, .	1.1	15
126	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> , 2006, , 59-76.	0.1	14



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127	Electron-ion Coulomb scattering and the electron Landau damping of Alfvén waves in the solar wind. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a.	3.3	14
128	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> , 2018, 123, 7384-7412.	0.8	14
129	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. <i>Nonlinear Processes in Geophysics</i> , 2019, 26, 429-443.	0.6	14
130	On the Fourier Contribution of Strong Current Sheets to the High-Frequency Magnetic Power Spectral Density of the Solar Wind. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA027307.	0.8	14
131	No evidence for the localized heating of solar wind protons at intense velocity shear zones. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 1455-1462.	0.8	13
132	Patch Size Evolution During Pulsating Aurora. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 4725-4738.	0.8	13
133	Outstanding questions in magnetospheric plasma physics: The pollenzo view. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2020, 208, 105377.	0.6	13
134	Feedback of the Magnetosphere. <i>Science</i> , 2014, 343, 1086-1087.	6.0	12
135	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> , 2014, 119, 1814-1826.	0.8	12
136	Breaking of the first adiabatic invariants of charged particles in time-dependent magnetic fields: Computer simulations and theory. <i>Physical Review A</i> , 1991, 43, 5605-5627.	1.0	11
137	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> , 2016, 121, 1817-1838.	0.8	11
138	The response of the inner magnetosphere to the trailing edges of high-speed solar wind streams. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 501-516.	0.8	11
139	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> , 2018, 123, 6424-6442.	0.8	11
140	Solving the auroral-arc-generator question by using an electron beam to unambiguously connect critical magnetospheric measurements to auroral images. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2020, 206, 105310.	0.6	11
141	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> , 2011, 116, n/a-n/a.	3.3	10
142	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> , 2020, 125, e2019JA027518.	0.8	10
143	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. <i>Frontiers in Astronomy and Space Sciences</i> , 2021, 8, .	1.1	10
144	Plasmaspheric observations at geosynchronous orbit. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2001, 63, 1185-1197.	0.6	9

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145	Observations and modeling of magnetic flux tube refilling of the plasmasphere at geosynchronous orbit. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 9246-9255.	0.8	9
146	SAMI3 Simulations of a Persistent Plasmasphere Plume. <i>Geophysical Research Letters</i> , 2018, 45, 3374-3381.	1.5	9
147	A survey of geomagnetic and plasma time lags in the solar-wind-driven magnetosphere of earth. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2020, 208, 105376.	0.6	9
148	The morphological evolution and internal convection of E $\times$ B-drifting plasma clouds: Theory, dielectric-in-cell simulations, and N-body dielectric simulations. <i>Physics of Plasmas</i> , 1998, 5, 3195-3223.	0.7	8
149	Nonequilibrium Phenomena in the Magnetosphere. , 2005, , 3-22.		8
150	Electrical conductivity channels in the atmosphere produced by relativistic-electron microbursts from the magnetosphere. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2017, 155, 22-26.	0.6	8
151	A Mission Concept to Determine the Magnetospheric Causes of Aurora. <i>Frontiers in Astronomy and Space Sciences</i> , 2020, 7, .	1.1	8
152	The Contribution of Compressional Magnetic Pumping to the Energization of the Earth's Outer Electron Radiation Belt During High-Speed Stream-Driven Storms. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 12,072.	0.8	7
153	The Electron Structure of the Solar Wind. <i>Frontiers in Astronomy and Space Sciences</i> , 2021, 8, .	1.1	7
154	Solar-Wind Structures That Are Not Destroyed by the Action of Solar-Wind Turbulence. <i>Frontiers in Astronomy and Space Sciences</i> , 2021, 8, .	1.1	7
155	Quantifying the non-linear dependence of energetic electron fluxes in the Earth's radiation belts with radial diffusion drivers. <i>Annales Geophysicae</i> , 2022, 40, 37-53.	0.6	7
156	The Strong-Double-Layer Model of Auroral Arcs: an Assessment. <i>Geophysical Monograph Series</i> , 2013, , 113-120.	0.1	6
157	The Direct Production of Ion Conics by Plasma Double Layers. <i>Geophysical Monograph Series</i> , 0, , 317-322.	0.1	6
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