

# Stephen Christon

## List of Publications by Year in descending order

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44  
papers

2,005  
citations

331670

21  
h-index

254184

43  
g-index

50  
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50  
docs citations

50  
times ranked

1250  
citing authors

#	ARTICLE	IF	CITATIONS
1	Suprathermal Magnetospheric Atomic and Molecular Heavy Ions at and Near Earth, Jupiter, and Saturn: Observations and Identification. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027271.	2.4	7
2	The Composition of $\sim 96$ Å $\text{W}^{+}$ in Saturn's Magnetosphere. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027315.	2.4	2
3	Discovery of Suprathermal Ionospheric Origin $\text{Fe}^{+}$ in and Near Earth's Magnetosphere. Journal of Geophysical Research: Space Physics, 2017, 122, 11,175.	2.4	10
4	Discovery of suprathermal $\text{Fe}^{+}$ in Saturn's magnetosphere. Journal of Geophysical Research: Space Physics, 2015, 120, 2720-2738.	2.4	9
5	Suprathermal magnetospheric minor ions heavier than water at Saturn: Discovery of $\text{M}^{+}$ seasonal variations. Journal of Geophysical Research: Space Physics, 2014, 119, 5662-5673.	2.4	11
6	Saturn suprathermal $\text{O}^{2+}$ and $\text{mass}^{28}$ molecular ions: Long-term seasonal and solar variation. Journal of Geophysical Research: Space Physics, 2013, 118, 3446-3463.	2.4	15
7	Revisiting the role of magnetic field fluctuations in nonadiabatic acceleration of ions during dipolarization. Journal of Geophysical Research, 2012, 117, .	3.3	7
8	Correction to "Pressure changes associated with substorm depolarization in the near-Earth plasma sheet". Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	0
9	Energetic $\text{O}^{+}$ and $\text{H}^{+}$ ions in the plasma sheet: Implications for the transport of ionospheric ions. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	37
10	Longitude dependences of energetic $\text{H}^{+}$ and $\text{O}^{+}$ at Saturn. Journal of Geophysical Research, 2010, 115, .	3.3	7
11	Distribution of $\text{O}^{+}$ ions in the plasma sheet and locations of substorm onsets. Journal of Geophysical Research, 2010, 115, .	3.3	3
12	Pressure changes associated with substorm depolarization in the near-Earth plasma sheet. Journal of Geophysical Research, 2010, 115, .	3.3	14
13	Response of ions of ionospheric origin to storm time substorms: Coordinated observations over the ionosphere and in the plasma sheet. Journal of Geophysical Research, 2009, 114, .	3.3	19
14	Geotail observations of plasma sheet ion composition over 16 years: On variations of average plasma ion mass and $\text{O}^{+}$ triggering substorm model. Journal of Geophysical Research, 2009, 114, .	3.3	37
15	The role of magnetic field fluctuations in nonadiabatic acceleration of ions during dipolarization. Journal of Geophysical Research, 2009, 114, .	3.3	69
16	A state-of-the-art picture of substorm-associated evolution of the near-Earth magnetotail obtained from superposed epoch analysis. Journal of Geophysical Research, 2009, 114, .	3.3	107
17	Solar and ionospheric plasmas in the ring current region. Geophysical Monograph Series, 2005, , 179-194.	0.1	12
18	Plasma sheet and (nonstorm) ring current formation from solar and polar wind sources. Journal of Geophysical Research, 2005, 110, .	3.3	43

#	ARTICLE	IF	CITATIONS
19	Overwhelming O <sup>+</sup> contribution to the plasma sheet energy density during the October 2003 superstorm: Geotail/EPIC and IMAGE/LENA observations. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	81
20	Outflow of energetic ions from the magnetosphere and its contribution to the decay of the storm time ring current. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	30
21	Geotail observations of signatures in the near-Earth magnetotail for the extremely intense substorms of the 30 October 2003 storm. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	22
22	Acceleration sites of energetic ions upstream of the Earth's bow shock and in the magnetosheath: Statistical study on charge states of heavy ions. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	16
23	Change of the plasma sheet ion composition during magnetic storm development observed by the Geotail spacecraft. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	39
24	Solar cycle and geomagnetic N <sup>+</sup> /O <sup>+</sup> variation in outer dayside magnetosphere: Possible relation to topside ionosphere. <i>Geophysical Research Letters</i> , 2002, 29, 2-1-2-3.	4.0	17
25	Ion composition of the near-Earth plasma sheet in storm and quiet intervals: Geotail/EPIC measurements. <i>Journal of Geophysical Research</i> , 2001, 106, 8391-8403.	3.3	45
26	Change of energetic ion composition in the plasma sheet during substorms. <i>Journal of Geophysical Research</i> , 2000, 105, 23277-23286.	3.3	36
27	Low-charge-state heavy ions upstream of Earth's bow shock and sunward flux of ionospheric O <sup>+</sup> , N <sup>+</sup> , and O <sup>2+</sup> ions: Geotail observations. <i>Geophysical Research Letters</i> , 2000, 27, 2433-2436.	4.0	29
28	Fast tailward stream observed in the distant tail associated with substorm: A multi-instrument study. <i>Geophysical Research Letters</i> , 2000, 27, 3571-3574.	4.0	3
29	Concurrent observations of solar wind oxygen by Geotail in the magnetosphere and wind in interplanetary space. <i>Geophysical Research Letters</i> , 1998, 25, 2987-2990.	4.0	10
30	Magnetospheric plasma regimes identified using Geotail measurements: 2. Statistics, spatial distribution, and geomagnetic dependence. <i>Journal of Geophysical Research</i> , 1998, 103, 23521-23542.	3.3	24
31	Magnetospheric plasma regimes identified using Geotail measurements: 1. Regime identification and distant tail variability. <i>Journal of Geophysical Research</i> , 1998, 103, 23503-23520.	3.3	20
32	GEOTAIL Energetic Particles and Ion Composition Instrument.. <i>Journal of Geomagnetism and Geoelectricity</i> , 1994, 46, 39-57.	0.9	153
33	High charge state carbon and oxygen ions in Earth's equatorial quasi-trapping region. <i>Journal of Geophysical Research</i> , 1994, 99, 13465.	3.3	27
34	Tailward energetic ion streams observed at $\sim 1/4$ 100 RE by GEOTAIL-EPIC associated with geomagnetic activity intensification. <i>Geophysical Research Letters</i> , 1994, 21, 3015-3018.	4.0	16
35	Energetic atomic and molecular ions of ionospheric origin observed in distant magnetotail flow-reversal events. <i>Geophysical Research Letters</i> , 1994, 21, 3023-3026.	4.0	42
36	Spectral characteristics of plasma sheet ion and electron populations during disturbed geomagnetic conditions. <i>Journal of Geophysical Research</i> , 1991, 96, 1-22.	3.3	244

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37	Relativistic electrons at geosynchronous orbit, interplanetary electron flux, and the 13-month Jovian synodic year. <i>Geophysical Research Letters</i> , 1989, 16, 1129-1132.	4.0	10
38	Spectral characteristics of plasma sheet ion and electron populations during undisturbed geomagnetic conditions. <i>Journal of Geophysical Research</i> , 1989, 94, 13409-13424.	3.3	220
39	Implications of large flow velocity signatures in nearly isotropic ion distributions. <i>Geophysical Research Letters</i> , 1988, 15, 303-306.	4.0	53
40	Energy spectra of plasma sheet ions and electrons from $\sim 450$ eV to $\sim 1$ MeV during plasma temperature transitions. <i>Journal of Geophysical Research</i> , 1988, 93, 2562-2572.	3.3	381
41	Latitude variation of recurrent MeV energy proton flux enhancements in the heliocentric radial range 11 to 20 AU and possible correlation with solar coronal hole dynamics. <i>Geophysical Research Letters</i> , 1985, 12, 109-112.	4.0	14
42	Energetic interplanetary nucleon flux anisotropies: The effect of Earth's bow shock and magnetosheath on sunward flow. <i>Journal of Geophysical Research</i> , 1982, 87, 5045-5062.	3.3	8
43	On the origin of the MeV energy nucleon flux associated with CIRs. <i>Journal of Geophysical Research</i> , 1981, 86, 8852-8868.	3.3	20
44	Separation of corotating nucleon fluxes from solar flare fluxes by radial gradients and nuclear composition. <i>Astrophysical Journal</i> , 1979, 227, L49.	4.5	36