Stephen Christon

List of Publications by Year
in descending order

44 papers	2,005 citations	331670 21 h-index	254184 43 g-index
50 all docs	50 docs citations	50 times ranked	1250 citing authors

#	Article	IF	Citations
1	Energy spectra of plasma sheet ions and electrons from â^¼50 eV/e to â^¼1 MeV during plasma temperature transitions. Journal of Geophysical Research, 1988, 93, 2562-2572.	3.3	381
2	Spectral characteristics of plasma sheet ion and electron populations during disturbed geomagnetic conditions. Journal of Geophysical Research, 1991, 96, 1-22.	3.3	244
3	Spectral characteristics of plasma sheet ion and electron populations during undisturbed geomagnetic conditions. Journal of Geophysical Research, 1989, 94, 13409-13424.	3.3	220
4	GEOTAIL Energetic Particles and Ion Composition Instrument.. Journal of Geomagnetism and Geoelectricity, 1994, 46, 39-57.	0.9	153
5	A stateâ€ofâ€theâ€art picture of substormâ€associated evolution of the nearâ€Earth magnetotail obtained from superposed epoch analysis. Journal of Geophysical Research, 2009, 114, .	3.3	107
6	Overwhelming O+contribution to the plasma sheet energy density during the October 2003 superstorm: Geotail/EPIC and IMAGE/LENA observations. Journal of Geophysical Research, 2005, 110, .	3.3	81
7	The role of magnetic field fluctuations in nonadiabatic acceleration of ions during dipolarization. Journal of Geophysical Research, 2009, 114, .	3.3	69
8	Implications of large flow velocity signatures in nearly isotropic ion distributions. Geophysical Research Letters, 1988, 15, 303-306.	4.0	53
9	Ion composition of the near-Earth plasma sheet in storm and quiet intervals: Geotail/EPIC measurements. Journal of Geophysical Research, 2001, 106, 8391-8403.	3.3	45
10	Plasma sheet and (nonstorm) ring current formation from solar and polar wind sources. Journal of Geophysical Research, 2005, 110, .	3.3	43
11	Energetic atomic and molecular ions of ionospheric origin observed in distant magnetotail flow-reversal events. Geophysical Research Letters, 1994, 21, 3023-3026.	4.0	42
12	Change of the plasma sheet ion composition during magnetic storm development observed by the Geotail spacecraft. Journal of Geophysical Research, 2003, 108, .	3.3	39
13	Geotail observations of plasma sheet ion composition over 16 years: On variations of average plasma ion mass and O⁺ triggering substorm model. Journal of Geophysical Research, 2009, 114, .	3.3	37
14	Energetic O+and 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
15	Change of energetic ion composition in the plasma sheet during substorms. Journal of Geophysical Research, 2000, 105, 23277-23286.	3.3	36
16	Separation of corotating nucleon fluxes from solar flare fluxes by radial gradients and nuclear composition. Astrophysical Journal, 1979, 227, L49.	4.5	36
17	Outflow of energetic ions from the magnetosphere and its contribution to the decay of the storm time ring current. Journal of Geophysical Research, 2005, 110, .	3.3	30
18	Low-charge-state heavy ions upstream of Earth's bow shock and sunward flux of ionospheric O+1, N+1, and O+2ions: Geotail observations. Geophysical Research Letters, 2000, 27, 2433-2436.	4.0	29

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19	High charge state carbon and oxygen ions in Earth's equatorial quasi-trapping region. Journal of Geophysical Research, 1994, 99, 13465.	3.3	27
20	Magnetospheric plasma regimes identified using Geotail measurements: 2. Statistics, spatial distribution, and geomagnetic dependence. Journal of Geophysical Research, 1998, 103, 23521-23542.	3.3	24
21	Geotail observations of signatures in the near-Earth magnetotail for the extremely intense substorms of the 30 October 2003 storm. Journal of Geophysical Research, 2005, 110, .	3.3	22
22	On the origin of the MeV energy nucleon flux associated with CIRs. Journal of Geophysical Research, 1981, 86, 8852-8868.	3.3	20
23	Magnetospheric plasma regimes identified using Geotail measurements: 1. Regime identification and distant tail variability. Journal of Geophysical Research, 1998, 103, 23503-23520.	3.3	20
24	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
25	Solar cycle and geomagnetic N+1/O+1variation in outer dayside magnetosphere: Possible relation to topside ionosphere. Geophysical Research Letters, 2002, 29, 2-1-2-3.	4.0	17
26	Tailward energetic ion streams observed at â^¼100 REby GEOTAIL-EPIC associated with geomagnetic activity intensification. Geophysical Research Letters, 1994, 21, 3015-3018.	4.0	16
27	Acceleration sites of energetic ions upstream of the Earth's bow shock and in the magnetosheath: Statistical study on charge states of heavy ions. Journal of Geophysical Research, 2004, 109, .	3.3	16
28	Saturn suprathermal O₂⁺ and massâ€28⁺ molecular ions: Longâ€term seasonal and solar variation. Journal of Geophysical Research: Space Physics, 2013, 118, 3446-3463.	2.4	15
29	Latitude variation of recurrent Mevâ€energy proton flux enhancements in the heliocentric radial range 11 to 20 AU and possible correlation with solar coronal hole dynamics. Geophysical Research Letters, 1985, 12, 109-112.	4.0	14
30	Pressure changes associated with substorm depolarization in the nearâ€Earth plasma sheet. Journal of Geophysical Research, 2010, 115, .	3.3	14
31	Solar and ionospheric plasmas in the ring current region. Geophysical Monograph Series, 2005, , 179-194.	0.1	12
32	Suprathermal magnetospheric minor ions heavier than water at Saturn: Discovery of ²⁸M⁺ seasonal variations. Journal of Geophysical Research: Space Physics, 2014, 119, 5662-5673.	2.4	11
33	Relativistic electrons at geosynchronous orbit, interplanetary electron flux, and the 13â€month Jovian synodic year. Geophysical Research Letters, 1989, 16, 1129-1132.	4.0	10
34	Concurrent observations of solar wind oxygen by Geotail in the magnetosphere and wind in interplanetary space. Geophysical Research Letters, 1998, 25, 2987-2990.	4.0	10
35	Discovery of Suprathermal Ionospheric Origin Fe⁺ in and Near Earth's Magnetosphere. Journal of Geophysical Research: Space Physics, 2017, 122, 11,175.	2.4	10
36	Discovery of suprathermal Fe⁺ in Saturn's magnetosphere. Journal of Geophysical Research: Space Physics, 2015, 120, 2720-2738.	2.4	9

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37	Energetic interplanetary nucleon flux anisotropies: The effect of Earth's bow shock and magnetosheath on sunward flow. Journal of Geophysical Research, 1982, 87, 5045-5062.	3.3	8
38	Longitude dependences of energetic H⁺ and O⁺ at Saturn. Journal of Geophysical Research, 2010, 115, .	3.3	7
39	Revisiting the role of magnetic field fluctuations in nonadiabatic acceleration of ions during dipolarization. Journal of Geophysical Research, 2012, 117, .	3.3	7
40	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
41	Fast tailward stream observed in the distant tail associated with substorm: A multi-instrument study. Geophysical Research Letters, 2000, 27, 3571-3574.	4.0	3
42	Distribution of O⁺ ions in the plasma sheet and locations of substorm onsets. Journal of Geophysical Research, 2010, 115, .	3.3	3
43	The Composition of ~96ÂkeVÂW⁺ in Saturn's Magnetosphere. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027315.	2.4	2
44	Correction to â€œPressure changes associated with substorm depolarization in the near-Earth plasma sheetâ€• Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	0