

# Stanley William Herbert Cowley

## List of Publications by Year in descending order

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414  
papers

17,404  
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27345

106  
g-index

421  
all docs

421  
docs citations

421  
times ranked

3298  
citing authors

#	ARTICLE	IF	CITATIONS
1	The causes of convection in the Earth's magnetosphere: A review of developments during the IMS. <i>Reviews of Geophysics</i> , 1982, 20, 531-565.	9.0	538
2	The Cassini Magnetic Field Investigation. <i>Space Science Reviews</i> , 2004, 114, 331-383.	3.7	434
3	Magnetospheric asymmetries associated with the y-component of the IMF. <i>Planetary and Space Science</i> , 1981, 29, 79-96.	0.9	401
4	Origin of the main auroral oval in Jupiter's coupled magnetosphere-ionosphere system. <i>Planetary and Space Science</i> , 2001, 49, 1067-1088.	0.9	335
5	Plasma populations in a simple open model magnetosphere. <i>Space Science Reviews</i> , 1980, 26, 217-275.	3.7	258
6	Cassini Magnetometer Observations During Saturn Orbit Insertion. <i>Science</i> , 2005, 307, 1266-1270.	6.0	211
7	A qualitative study of the reconnection between the Earth's magnetic field and an interplanetary field of arbitrary orientation. <i>Radio Science</i> , 1973, 8, 903-913.	0.8	181
8	Interplanetary magnetic field control of dayside auroral activity and the transfer of momentum across the dayside magnetopause. <i>Planetary and Space Science</i> , 1989, 37, 1347-1365.	0.9	179
9	A simple illustrative model of open flux tube motion over the dayside magnetopause. <i>Planetary and Space Science</i> , 1989, 37, 1461-1475.	0.9	177
10	Variations in the polar cap area during two substorm cycles. <i>Annales Geophysicae</i> , 2003, 21, 1121-1140.	0.6	173
11	Magnetospheric Science Objectives of the Juno Mission. <i>Space Science Reviews</i> , 2017, 213, 219-287.	3.7	163
12	Response of Jupiter's and Saturn's auroral activity to the solar wind. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	161
13	Jupiter's main auroral oval observed with HST-STIS. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	157
14	Magnetosphere-ionosphere interactions: A tutorial review. <i>Geophysical Monograph Series</i> , 2000, , 91-106.	0.1	156
15	Morphological differences between Saturn's ultraviolet aurorae and those of Earth and Jupiter. <i>Nature</i> , 2005, 433, 717-719.	13.7	155
16	Reconnection in a rotation-dominated magnetosphere and its relation to Saturn's auroral dynamics. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	151
17	Convection and auroral response to a southward turning of the IMF: Polar UVI, CUTLASS, and IMAGE signatures of transient magnetic flux transfer at the magnetopause. <i>Journal of Geophysical Research</i> , 2000, 105, 15741-15755.	3.3	150
18	Saturn's polar ionospheric flows and their relation to the main auroral oval. <i>Annales Geophysicae</i> , 2004, 22, 1379-1394.	0.6	139

#	ARTICLE	IF	CITATIONS
19	Plasmoid-associated energetic ion bursts in the deep geomagnetic tail: Properties of plasmoids and the postplasmoid plasma sheet. <i>Journal of Geophysical Research</i> , 1987, 92, 9997-10013.	3.3	138
20	The dependence of high-latitude dayside ionospheric flows on the North-South component of the IMF: A high time resolution correlation analysis using EISCAT "Polar" and AMPTE UKS and IRM data. <i>Planetary and Space Science</i> , 1988, 36, 471-498.	0.9	138
21	Jupiter's polar ionospheric flows: Theoretical interpretation. <i>Geophysical Research Letters</i> , 2003, 30, n/a-n/a.	1.5	138
22	Jupiter's polar auroral emissions. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	135
23	A simple quantitative model of plasma flows and currents in Saturn's polar ionosphere. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	134
24	Pressure-driven magnetopause motions and attendant response on the ground. <i>Planetary and Space Science</i> , 1989, 37, 589-607.	0.9	127
25	Origin of Saturn's aurora: Simultaneous observations by Cassini and the Hubble Space Telescope. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	127
26	Observations of the response time of high-latitude ionospheric convection to variations in the interplanetary magnetic field using EISCAT and IMP-8 data. <i>Annales Geophysicae</i> , 1999, 17, 1306-1335.	0.6	121
27	The effect of pressure anisotropy on the equilibrium structure of magnetic current sheets. <i>Planetary and Space Science</i> , 1978, 26, 1037-1061.	0.9	118
28	Interplanetary magnetic field at $\approx 1/9$ AU during the declining phase of the solar cycle and its implications for Saturn's magnetospheric dynamics. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	114
29	Field and flow perturbations outside the reconnected field line region in flux transfer events: Theory. <i>Planetary and Space Science</i> , 1987, 35, 227-240.	0.9	109
30	Jupiter's magnetosphere and aurorae observed by the Juno spacecraft during its first polar orbits. <i>Science</i> , 2017, 356, 826-832.	6.0	109
31	Cassini observations of the variation of Saturn's ring current parameters with system size. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	108
32	Saturn's magnetic field revealed by the Cassini Grand Finale. <i>Science</i> , 2018, 362, .	6.0	108
33	Magnetosphere-ionosphere coupling currents in Jupiter's middle magnetosphere: effect of precipitation-induced enhancement of the ionospheric Pedersen conductivity. <i>Annales Geophysicae</i> , 2004, 22, 1799-1827.	0.6	105
34	Observation of an IMF sector effect in the Y magnetic field component at geostationary orbit. <i>Planetary and Space Science</i> , 1983, 31, 73-90.	0.9	101
35	Corotation-driven magnetosphere-ionosphere coupling currents in Saturn's magnetosphere and their relation to the auroras. <i>Annales Geophysicae</i> , 2003, 21, 1691-1707.	0.6	99
36	Planetary period oscillations in Saturn's magnetosphere: Phase relation of equatorial magnetic field oscillations and Saturn kilometric radiation modulation. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	98

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37	Comments on the merging of nonantiparallel magnetic fields. <i>Journal of Geophysical Research</i> , 1976, 81, 3455-3458.	3.3	97
38	Significance of Dungey-cycle flows in Jupiter's and Saturn's magnetospheres, and their identification on closed equatorial field lines. <i>Annales Geophysicae</i> , 2007, 25, 941-951.	0.6	97
39	Variable morphology of Saturn's southern ultraviolet aurora. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	96
40	Response time of the high-latitude dayside ionosphere to sudden changes in the north-south component of the IMF. <i>Planetary and Space Science</i> , 1988, 36, 1415-1428.	0.9	95
41	Dayside convection and auroral morphology during an interval of northward interplanetary magnetic field. <i>Annales Geophysicae</i> , 2000, 18, 436-444.	0.6	94
42	Statistical analysis of the location of the Martian magnetic pileup boundary and bow shock and the influence of crustal magnetic fields. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	93
43	In situ observations of a solar wind compression-induced hot plasma injection in Saturn's tail. <i>Geophysical Research Letters</i> , 2005, 32, .	1.5	92
44	Open flux estimates in Saturn's magnetosphere during the January 2004 Cassini-HST campaign, and implications for reconnection rates. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	92
45	Magnetospheric period oscillations at Saturn: Comparison of equatorial and high-latitude magnetic field periods with north and south Saturn kilometric radiation periods. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	92
46	Saturn's magnetodisc current sheet. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	89
47	Flux transfer events at the magnetopause and in the ionosphere. <i>Geophysical Research Letters</i> , 1990, 17, 2241-2244.	1.5	88
48	Oscillation of Saturn's southern auroral oval. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	88
49	Pumping out the atmosphere of Mars through solar wind pressure pulses. <i>Geophysical Research Letters</i> , 2010, 37, .	1.5	88
50	Planetary period oscillations in Saturn's magnetosphere: Evolution of magnetic oscillation properties from southern summer to post-equinox. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	88
51	Meridian-scanning photometer, coherent HF radar, and magnetometer observations of the cusp: a case study. <i>Annales Geophysicae</i> , 1999, 17, 159-172.	0.6	87
52	Jovian cusp processes: Implications for the polar aurora. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	87
53	Field-aligned currents in Saturn's southern nightside magnetosphere: Subcorotation and planetary period oscillation components. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 9847-9899.	0.8	87
54	Interplanetary coronal mass ejection observed at STEREO-A, Mars, comet 67P/Churyumov-Gerasimenko, Saturn, and New Horizons en route to Pluto: Comparison of its Forbush decreases at 1.4, 3.1, and 9.9 AU. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 7865-7890.	0.8	87

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55	Plasmoid-associated energetic ion bursts in the deep geomagnetic tail: Properties of the boundary layer. <i>Journal of Geophysical Research</i> , 1985, 90, 12133-12158.	3.3	86
56	Periodic motion of Saturn's nightside plasma sheet. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a.	3.3	84
57	Response of the magnetotail to changes in the open flux content of the magnetosphere. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	83
58	Polarization and phase of planetary-period magnetic field oscillations on high-latitude field lines in Saturn's magnetosphere. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	83
59	A statistical analysis of the location and width of Saturn's southern auroras. <i>Annales Geophysicae</i> , 2006, 24, 3533-3545.	0.6	82
60	The auroral footprint of Enceladus on Saturn. <i>Nature</i> , 2011, 472, 331-333.	13.7	82
61	Dayside auroral activity and magnetic flux transfer from the solar wind. <i>Geophysical Research Letters</i> , 1989, 16, 33-36.	1.5	81
62	Jupiter's polar ionospheric flows: Measured intensity and velocity variations poleward of the main auroral oval. <i>Geophysical Research Letters</i> , 2003, 30, n/a-n/a.	1.5	81
63	Eastward propagation of a plasma convection enhancement following a southward turning of the interplanetary magnetic field. <i>Geophysical Research Letters</i> , 1986, 13, 72-75.	1.5	80
64	Asymmetry effects associated with the x-component of the IMF in a magnetically open magnetosphere. <i>Planetary and Space Science</i> , 1981, 29, 809-818.	0.9	78
65	Energetic ion regimes in the deep geomagnetic tail: ISEE-3. <i>Geophysical Research Letters</i> , 1984, 11, 275-278.	1.5	78
66	Non-Maxwellian ion velocity distributions observed using EISCAT. <i>Geophysical Research Letters</i> , 1987, 14, 111-114.	1.5	78
67	Observations of reverse polarity flux transfer events at the Earth's dayside magnetopause. <i>Nature</i> , 1982, 300, 23-26.	13.7	77
68	EISCAT observations of bursts of rapid flow in the high latitude dayside ionosphere. <i>Geophysical Research Letters</i> , 1986, 13, 909-912.	1.5	76
69	Northward interplanetary magnetic field cusp aurora and high-latitude magnetopause reconnection. <i>Journal of Geophysical Research</i> , 1997, 102, 11349-11362.	3.3	75
70	Stereo CUTLASS - A new capability for the SuperDARN HF radars. <i>Annales Geophysicae</i> , 2004, 22, 459-473.	0.6	74
71	Cassini observations of plasmoid structure and dynamics: Implications for the role of magnetic reconnection in magnetospheric circulation at Saturn. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a.	3.3	73
72	A note on the motion of charged particles in one-dimensional magnetic current sheets. <i>Planetary and Space Science</i> , 1978, 26, 539-545.	0.9	71

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73	Dayside and nightside reconnection rates inferred from IMAGE FLUV and Super Dual Auroral Radar Network data. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	71
74	A two-ejecta event associated with a two-step geomagnetic storm. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	71
75	Dual periodicities in planetary-period magnetic field oscillations in Saturn's tail. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	70
76	The domination of Saturn's low-latitude ionosphere by ring rain. <i>Nature</i> , 2013, 496, 193-195.	13.7	70
77	Field-aligned currents in Saturn's northern nightside magnetosphere: Evidence for interhemispheric current flow associated with planetary period oscillations. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 7552-7584.	0.8	70
78	Plasma boundary variability at Mars as observed by Mars Global Surveyor and Mars Express. <i>Annales Geophysicae</i> , 2009, 27, 3537-3550.	0.6	70
79	Cassini observations of planetary-period magnetic field oscillations in Saturn's magnetosphere: Doppler shifts and phase motion. <i>Geophysical Research Letters</i> , 2006, 33, .	1.5	69
80	Response of Jupiter's auroras to conditions in the interplanetary medium as measured by the Hubble Space Telescope and Juno. <i>Geophysical Research Letters</i> , 2017, 44, 7643-7652.	1.5	68
81	Initial EISCAT observations of plasma convection at invariant latitudes 70°–77°. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 1984, 46, 635-641.	0.9	66
82	Response of Jupiter's UV auroras to interplanetary conditions as observed by the Hubble Space Telescope during the Cassini flyby campaign. <i>Journal of Geophysical Research</i> , 2007, 112, n/a-n/a.	3.3	66
83	Magnetic field oscillations near the planetary period in Saturn's equatorial magnetosphere: Variation of amplitude and phase with radial distance and local time. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	66
84	ORIGIN OF ELECTRON CYCLOTRON MASER INDUCED RADIO EMISSIONS AT ULTRACOOL DWARFS: MAGNETOSPHERE-IONOSPHERE COUPLING CURRENTS. <i>Astrophysical Journal</i> , 2012, 760, 59.	1.6	66
85	Variability of dayside convection and motions of the cusp/cleft aurora. <i>Geophysical Research Letters</i> , 1993, 20, 1011-1014.	1.5	65
86	Magnetospheric period magnetic field oscillations at Saturn: Equatorial phase jitter produced by superposition of southern and northern period oscillations. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a.	3.3	62
87	A flux transfer event observed at the magnetopause by the Equator-S spacecraft and in the ionosphere by the CUTLASS HF radar. <i>Annales Geophysicae</i> , 1999, 17, 707-711.	0.6	61
88	Magnetic Reconnection in the Near-Earth Magnetotail. <i>Geophysical Monograph Series</i> , 0, , 211-224.	0.1	61
89	Simultaneous observations of the cusp in optical, DMSP and HF radar data. <i>Geophysical Research Letters</i> , 1997, 24, 2251-2254.	1.5	60
90	Auroral current systems in Saturn's magnetosphere: comparison of theoretical models with Cassini and HST observations. <i>Annales Geophysicae</i> , 2008, 26, 2613-2630.	0.6	60

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91	The azimuthal extent of three flux transfer events. <i>Annales Geophysicae</i> , 2008, 26, 2353-2369.	0.6	60
92	Atmospheric erosion of Venus during stormy space weather. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a.	3.3	60
93	<i>HUBBLE SPACE TELESCOPE</i> OBSERVATIONS OF THE NUV TRANSIT OF WASP-12b. <i>Astrophysical Journal</i> , 2015, 803, 9.	1.6	59
94	A simple axisymmetric model of magnetosphere-ionosphere coupling currents in Jupiter's polar ionosphere. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	58
95	Planetary period magnetic field oscillations in Saturn's magnetosphere: Postequinox abrupt nonmonotonic transitions to northern system dominance. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 3243-3264.	0.8	58
96	Magnetic field structure of Saturn's dayside magnetosphere and its mapping to the ionosphere: Results from ring current modeling. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	57
97	On the character and distribution of lower-frequency radio emissions at Saturn and their relationship to substorm-like events. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	57
98	Variation of Saturn's UV aurora with SKR phase. <i>Geophysical Research Letters</i> , 2010, 37, .	1.5	57
99	Modulation of Jupiter's plasma flow, polar currents, and auroral precipitation by solar wind-induced compressions and expansions of the magnetosphere: a simple theoretical model. <i>Annales Geophysicae</i> , 2007, 25, 1433-1463.	0.6	56
100	Energy-flux relationship in the FUV Jovian aurora deduced from HST-STIS spectral observations. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	55
101	The origin of Saturn's magnetic periodicities: Northern and southern current systems. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 1563-1571.	0.8	55
102	The statistical cusp: a flux transfer event model. <i>Planetary and Space Science</i> , 1992, 40, 1251-1268.	0.9	54
103	Structure and statistical properties of plasmoids in Jupiter's magnetotail. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 821-843.	0.8	54
104	Adiabatic plasma convection in a dipole field: Variation of plasma bulk parameters with L. <i>Planetary and Space Science</i> , 1975, 23, 1527-1549.	0.9	53
105	The interaction of heavy ions from comet P/Giacobini-Zinner with the solar wind. <i>Geophysical Research Letters</i> , 1986, 13, 411-414.	1.5	53
106	Auroral counterpart of magnetic field dipolarizations in Saturn's tail. <i>Planetary and Space Science</i> , 2013, 82-83, 34-42.	0.9	53
107	Signature of Saturn's auroral cusp: Simultaneous Hubble Space Telescope FUV observations and upstream solar wind monitoring. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	52
108	The impact of recent observations on theoretical understanding of solar wind-magnetosphere interactions.. <i>Journal of Geomagnetism and Geoelectricity</i> , 1986, 38, 1223-1256.	0.8	52

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109	Auroral signature of lobe reconnection. <i>Geophysical Research Letters</i> , 1996, 23, 1725-1728.	1.5	51
110	Plasma flow in the Jovian magnetosphere and related magnetic effects: Ulysses observations. <i>Journal of Geophysical Research</i> , 1996, 101, 15197-15210.	3.3	51
111	Divergence of the equatorial current in the dawn sector of Jupiter's magnetosphere: analysis of Pioneer and Voyager magnetic field data. <i>Planetary and Space Science</i> , 2001, 49, 1089-1113.	0.9	51
112	Modulation of Jupiter's main auroral oval emissions by solar wind induced expansions and compressions of the magnetosphere. <i>Planetary and Space Science</i> , 2003, 51, 57-79.	0.9	51
113	Interplanetary magnetic field control of Saturn's polar cusp aurora. <i>Annales Geophysicae</i> , 2005, 23, 1405-1431.	0.6	51
114	Cassini observations of planetary-period oscillations of Saturn's magnetopause. <i>Geophysical Research Letters</i> , 2006, 33, .	1.5	51
115	Dawnâ€dusk oscillation of Saturn's conjugate auroral ovals. <i>Geophysical Research Letters</i> , 2010, 37, .	1.5	51
116	Earthâ€based detection of Uranus' aurorae. <i>Geophysical Research Letters</i> , 2012, 39, .	1.5	51
117	The influence of the IMF By component on the location of pulsed flows in the dayside ionosphere observed by an HF radar. <i>Geophysical Research Letters</i> , 1999, 26, 521-524.	1.5	50
118	Characteristics of Jovian morning bright FUV aurora from Hubble Space Telescope/Space Telescope Imaging Spectrograph imaging and spectral observations. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	48
119	Magnetopause oscillations near the planetary period at Saturn: Occurrence, phase, and amplitude. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	48
120	Adiabatic plasma convection in a dipole field: Proton forbidden-zone effects for a simple electric field model. <i>Planetary and Space Science</i> , 1976, 24, 821-833.	0.9	47
121	Some properties of a steadyâ€state geomagnetic tail. <i>Geophysical Research Letters</i> , 1980, 7, 833-836.	1.5	47
122	Excitation of twin-vortex flow in the nightside high-latitude ionosphere during an isolated substorm. <i>Annales Geophysicae</i> , 2002, 20, 1577-1601.	0.6	47
123	The influence of IMF By on the nature of the nightside high-latitude ionospheric flow during intervals of positive IMF Bz. <i>Annales Geophysicae</i> , 2004, 22, 1755-1764.	0.6	47
124	Cassini observations of ion and electron beams at Saturn and their relationship to infrared auroral arcs. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	47
125	A survey of simultaneous observations of the high-latitude ionosphere and interplanetary magnetic field with EISCAT and AMPTE-UKS. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 1986, 48, 987-1008.	0.9	46
126	Comment on â€Jupiter: A fundamentally different magnetospheric interaction with the solar windâ€ by D. J. McComas and F. Bagenal. <i>Geophysical Research Letters</i> , 2008, 35, .	1.5	46



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127	Interhemispheric observations of the ionospheric signature of tail reconnection during IMF-northward non-substorm intervals. <i>Annales Geophysicae</i> , 2005, 23, 1763-1770.	0.6	45
128	Planetary period oscillations in Saturn's magnetosphere: Comparison of magnetic oscillations and SKR modulations in the postequinox interval. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 7380-7401.	0.8	45
129	ISEE 3 observations during the CDAW 8 intervals: Case studies of the distant geomagnetic tail covering a wide range of geomagnetic activity. <i>Journal of Geophysical Research</i> , 1989, 94, 15189-15220.	3.3	44
130	The contribution of flux transfer events to convection. <i>Geophysical Research Letters</i> , 1995, 22, 1185-1188.	1.5	44
131	Origins of Jupiter's main oval auroral emissions. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	44
132	A global magnetic model of Saturn's magnetosphere and a comparison with Cassini SOI data. <i>Geophysical Research Letters</i> , 2006, 33, .	1.5	44
133	Characterization of auroral current systems in Saturn's magnetosphere: High-latitude Cassini observations. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	44
134	Planetary period oscillations in Saturn's magnetosphere: Evidence in magnetic field phase data for rotational modulation of Saturn kilometric radiation emissions. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a.	3.3	44
135	Interpretation of magnetic field perturbations in the earth's magnetopause boundary layers. <i>Planetary and Space Science</i> , 1983, 31, 1237-1258.	0.9	43
136	Jovian-like aurorae on Saturn. <i>Nature</i> , 2008, 453, 1083-1085.	13.7	43
137	Dynamic auroral storms on Saturn as observed by the Hubble Space Telescope. <i>Geophysical Research Letters</i> , 2014, 41, 3323-3330.	1.5	43
138	Magnetopause reconnection rate estimates for Jupiter's magnetosphere based on interplanetary measurements at ~5AU. <i>Annales Geophysicae</i> , 2006, 24, 393-406.	0.6	43
139	Complex structure within Saturn's infrared aurora. <i>Nature</i> , 2008, 456, 214-217.	13.7	42
140	Planetary period oscillations in Saturn's magnetosphere: Coalescence and reversal of northern and southern periods in late northern spring. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 9829-9862.	0.8	42
141	Adiabatic plasma convection in a dipole field: Electron forbidden-zone effects for a simple electric field model. <i>Planetary and Space Science</i> , 1976, 24, 805-819.	0.9	41
142	Three dimensional energetic ion bulk flows at comet P/Giacobini-Zinner. <i>Geophysical Research Letters</i> , 1986, 13, 415-418.	1.5	41
143	Observations of energetic water-group ions at comet giacobini-zinner: Implications for ion acceleration processes. <i>Planetary and Space Science</i> , 1987, 35, 1323-1345.	0.9	41
144	Multi-instrument observations of the ionospheric counterpart of a bursty bulk flow in the near-Earth plasma sheet. <i>Annales Geophysicae</i> , 2004, 22, 1061-1075.	0.6	41

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145	Energetic particle signatures of magnetic field-aligned potentials over Jupiter's polar regions. <i>Geophysical Research Letters</i> , 2017, 44, 8703-8711.	1.5	41
146	Ionospheric response to changes in the interplanetary magnetic field observed by EISCAT and AMPTE-UKS. <i>Nature</i> , 1985, 318, 451-452.	13.7	40
147	Azimuthal magnetic fields in Saturn's magnetosphere: effects associated with plasma sub-corotation and the magnetopause-tail current system. <i>Annales Geophysicae</i> , 2003, 21, 1709-1722.	0.6	40
148	Compression of the Earth's magnetotail by interplanetary shocks directly drives transient magnetic flux closure. <i>Geophysical Research Letters</i> , 2006, 33, n/a-n/a.	1.5	40
149	Wave-Particle Interactions Near the Geostationary Orbit. <i>Astrophysics and Space Science Library</i> , 1974, , 241-270.	1.0	40
150	Observations at the magnetopause and in the auroral ionosphere of momentum transfer from the solar wind. <i>Advances in Space Research</i> , 1988, 8, 281-299.	1.2	39
151	Ion flows and heating at a contracting polar-cap boundary. <i>Planetary and Space Science</i> , 1988, 36, 1229-1253.	0.9	39
152	Magnetosonic Mach number dependence of the efficiency of reconnection between planetary and interplanetary magnetic fields. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	39
153	Thickness of Saturn's ring current determined from north-south Cassini passes through the current layer. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	39
154	Magnetosonic Mach number effect of the position of the bow shock at Mars in comparison to Venus. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	39
155	Saturn's ring current: Local time dependence and temporal variability. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	39
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