

J F Carbary

List of Publications by Year in descending order

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117
papers

3,520
citations

126907

33
h-index

155660

55
g-index

120
all docs

120
docs citations

120
times ranked

1448
citing authors

#	ARTICLE	IF	CITATIONS
1	General characteristics of hot plasma and energetic particles in the Saturnian magnetosphere: Results from the Voyager spacecraft. <i>Journal of Geophysical Research</i> , 1983, 88, 8871-8892.	3.3	285
2	Characteristics of hot plasma in the Jovian magnetosphere: Results from the Voyager spacecraft. <i>Journal of Geophysical Research</i> , 1981, 86, 8227-8257.	3.3	210
3	Discovery of a north-south asymmetry in Saturn's radio rotation period. <i>Geophysical Research Letters</i> , 2009, 36, .	4.0	143
4	Hot Plasma Environment at Jupiter: Voyager 2 Results. <i>Science</i> , 1979, 206, 977-984.	12.6	140
5	Recurrent energization of plasma in the midnight-to-dawn quadrant of Saturn's magnetosphere, and its relationship to auroral UV and radio emissions. <i>Planetary and Space Science</i> , 2009, 57, 1732-1742.	1.7	140
6	Low-Energy Charged Particle Environment at Jupiter: A First Look. <i>Science</i> , 1979, 204, 998-1003.	12.6	133
7	Low-Energy Charged Particles in Saturn's Magnetosphere: Results from Voyager 1. <i>Science</i> , 1981, 212, 225-231.	12.6	90
8	Periodicities in Saturn's magnetosphere. <i>Reviews of Geophysics</i> , 2013, 51, 1-30.	23.0	87
9	Ion conics and electron beams associated with auroral processes on Saturn. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	81
10	Charged particle periodicity in the Saturnian magnetosphere. <i>Geophysical Research Letters</i> , 1982, 9, 1073-1076.	4.0	68
11	Energetic particle events (≈ 30 keV) of Jovian origin observed by Voyager 1 and 2 in interplanetary space. <i>Journal of Geophysical Research</i> , 1981, 86, 8125-8140.	3.3	64
12	Ion anisotropies in the outer Jovian magnetosphere. <i>Journal of Geophysical Research</i> , 1981, 86, 8285-8299.	3.3	61
13	Low-Energy Hot Plasma and Particles in Saturn's Magnetosphere. <i>Science</i> , 1982, 215, 571-577.	12.6	57
14	ENA periodicities at Saturn. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	57
15	OVATION: Oval variation, assessment, tracking, intensity, and online nowcasting. <i>Annales Geophysicae</i> , 2002, 20, 1039-1047.	1.6	54
16	Energetic particle microsignatures of Saturn's satellites. <i>Journal of Geophysical Research</i> , 1983, 88, 8947-8958.	3.3	53
17	Charged particle periodicities in Saturn's outer magnetosphere. <i>Journal of Geophysical Research</i> , 2007, 112, n/a-n/a.	3.3	53
18	Statistical morphology of ENA emissions at Saturn. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	48

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19	AKp-based model of auroral boundaries. <i>Space Weather</i> , 2005, 3, n/a-n/a.	3.7	47
20	Auroral boundary correlations between UVI and DMSP. <i>Journal of Geophysical Research</i> , 2003, 108, SIA 2-1.	3.3	45
21	Periodic tilting of Saturn's plasma sheet. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	44
22	Energetic particles in Saturn's magnetosphere during the Cassini nominal mission (July 2004â€“July) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	3.7	43
23	Planetary spin period acceleration of particles in the Jovian magnetosphere. <i>Journal of Geophysical Research</i> , 1976, 81, 5189-5195.	3.3	42
24	Periodicities in the Jovian magnetosphere: Magnetodisc models after Voyager. <i>Geophysical Research Letters</i> , 1980, 7, 29-32.	4.0	42
25	The morphology of Saturn's ultraviolet aurora. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	41
26	Ultraviolet and visible imaging and spectrographic imaging instrument. <i>Applied Optics</i> , 1994, 33, 4201.	2.1	37
27	Plasma convection in Saturn's outer magnetosphere determined from ions detected by the Cassini INCA experiment. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	37
28	Saturn's periodic magnetic field perturbations caused by a rotating partial ring current. <i>Geophysical Research Letters</i> , 2010, 37, .	4.0	37
29	Dust grains fall from Saturn's D-ring into its equatorial upper atmosphere. <i>Science</i> , 2018, 362, .	12.6	37
30	Evidence for spiral pattern in Saturn's magnetosphere using the new SKR longitudes. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	36
31	The Dynamics of Saturn's Magnetosphere. , 2009, , 257-279.		35
32	Correlation of auroral power with the polar cap index. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	34
33	Energetic Ion Moments and Polytopic Index in Saturn's Magnetosphere using Cassini/MIMI Measurements: A Simple Model Based on $\langle v^p \rangle$ Distribution Functions. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 8066-8086.	2.4	34
34	Periodic escape of relativistic electrons from the Jovian magnetosphere. <i>Geophysical Research Letters</i> , 1974, 1, 333-336.	4.0	33
35	Recurrent pulsations in Saturn's high latitude magnetosphere. <i>Icarus</i> , 2016, 263, 94-100.	2.5	32
36	Energetic charged particle weathering of Saturn's inner satellites. <i>Planetary and Space Science</i> , 2012, 61, 60-65.	1.7	31

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37	Atmospheric remote sensing using a combined extinctive and refractive stellar occultation technique 1. Overview and proof-of-concept observations. <i>Journal of Geophysical Research</i> , 2002, 107, ACH 15-1.	3.3	30
38	Understanding the global evolution of Saturn's ring current. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	30
39	Dual periodicities in energetic electrons at Saturn. <i>Geophysical Research Letters</i> , 2009, 36, .	4.0	30
40	Asymmetries in Saturn's radiation belts. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	28
41	Electron periodicities in Saturn's outer magnetosphere. <i>Journal of Geophysical Research</i> , 2007, 112, n/a-n/a.	3.3	27
42	The variable extension of Saturn's electron radiation belts. <i>Planetary and Space Science</i> , 2014, 104, 3-17.	1.7	27
43	A radiation belt of energetic protons located between Saturn and its rings. <i>Science</i> , 2018, 362, .	12.6	27
44	Altitudes of polar mesospheric clouds observed by a middle ultraviolet imager. <i>Journal of Geophysical Research</i> , 1999, 104, 10089-10100.	3.3	26
45	Leonid meteor spectrum from 110 to 860 nm. <i>Icarus</i> , 2003, 161, 223-234.	2.5	25
46	Pitch angle distributions of energetic electrons at Saturn. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a.	3.3	25
47	Energetic particle transport in the upstream region of Jupiter: Voyager results. <i>Journal of Geophysical Research</i> , 1984, 89, 3775-3787.	3.3	24
48	Wave analysis of auroral substorm dynamics. <i>Journal of Geophysical Research</i> , 2000, 105, 16083-16091.	3.3	24
49	L shell distribution of energetic electrons at Saturn. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	24
50	Spin-period effects in magnetospheres with no axial tilt. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	23
51	The spokes in Saturn's rings: A new approach. <i>Geophysical Research Letters</i> , 1982, 9, 420-422.	4.0	20
52	Transpolar structure of polar mesospheric clouds. <i>Journal of Geophysical Research</i> , 2000, 105, 24763-24769.	3.3	20
53	Hemispheric comparison of PMC altitudes. <i>Geophysical Research Letters</i> , 2001, 28, 725-728.	4.0	20
54	TIMED/GUVI observation of solar illumination effect on auroral energy deposition. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a.	3.3	20

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55	Plasma convection in the nightside magnetosphere of Saturn determined from energetic ion anisotropies. <i>Planetary and Space Science</i> , 2014, 91, 1-13.	1.7	20
56	Using the kappa function to investigate hot plasma in the magnetospheres of the giant planets. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 8426-8447.	2.4	20
57	Particle characteristics from the spectra of polar mesospheric clouds. <i>Journal of Geophysical Research</i> , 2002, 107, AAC 5-1-AAC 5-12.	3.3	19
58	Track analysis of energetic neutral atom blobs at Saturn. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	19
59	Direct observation of warping in the plasma sheet of Saturn. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	19
60	Corotation anisotropies in Saturn's magnetosphere. <i>Journal of Geophysical Research</i> , 1983, 88, 8937-8946.	3.3	18
61	Evidence for bimodal particle distribution from the spectra of polar mesospheric clouds. <i>Geophysical Research Letters</i> , 2004, 31, n/a-n/a.	4.0	18
62	Longitude dependences of Saturn's ultraviolet aurora. <i>Geophysical Research Letters</i> , 2013, 40, 1902-1906.	4.0	18
63	Keogram analysis of ENA images at Saturn. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 1771-1780.	2.4	17
64	Midcourse Space Experiment/Ultraviolet and Visible Imaging and Spectrographic Imaging limb observations of combined proton/hydrogen/electron aurora. <i>Journal of Geophysical Research</i> , 2001, 106, 65-75.	3.3	15
65	Maps of polar mesospheric clouds. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	14
66	Energetic neutral atom (ENA) and charged particle periodicities in Saturn's magnetosphere. <i>Advances in Space Research</i> , 2009, 44, 483-493.	2.6	14
67	Statistical ring current of Saturn. <i>Journal of Geophysical Research</i> , 2012, 117, n/a-n/a.	3.3	14
68	A high time resolution study of the solar wind-magnetosphere energy coupling function. <i>Planetary and Space Science</i> , 1982, 30, 537-543.	1.7	13
69	A self-consistent model of a corotating Jovian magnetosphere. <i>Journal of Geophysical Research</i> , 1978, 83, 2603-2608.	3.3	12
70	Seasonal variations in Saturn's plasma sheet warping. <i>Geophysical Research Letters</i> , 2016, 43, 11,957.	4.0	12
71	Structure in the UV nightglow observed from low Earth orbit. <i>Geophysical Research Letters</i> , 1992, 19, 985-988.	4.0	11
72	Atmospheric remote sensing using a combined extinctive and refractive stellar occultation technique 3. Inversion method for refraction measurements. <i>Journal of Geophysical Research</i> , 2002, 107, ACH 7-1.	3.3	11

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73	Correlation of LBH intensities with precipitating particle energies. Geophysical Research Letters, 2004, 31, n/a-n/a.	4.0	11
74	Global configuration of Saturn's magnetic field derived from observations. Geophysical Research Letters, 2010, 37, .	4.0	11
75	Convection in the Magnetosphere of Saturn During the Cassini Mission Derived From MIMI INCA and CHEMS Measurements. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027534.	2.4	11
76	Spectrum of a Leonid meteor from 110 to 860 nm. Advances in Space Research, 2004, 33, 1455-1458.	2.6	10
77	Phase relations between energetic neutral atom intensities and kilometric radio emissions at Saturn. Journal of Geophysical Research, 2010, 115, .	3.3	10
78	Post-equinox periodicities in Saturn's energetic electrons. Geophysical Research Letters, 2011, 38, n/a-n/a.	4.0	10
79	Energetic electron spectra in Saturn's plasma sheet. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	10
80	ENA periodicities and their phase relations to SKR emissions at Saturn. Geophysical Research Letters, 2011, 38, n/a-n/a.	4.0	9
81	Saturn's hinge parameter from Cassini magnetotail passes in 2013â€“2014. Journal of Geophysical Research: Space Physics, 2015, 120, 4438-4445.	2.4	9
82	Update on Saturn's energetic electron periodicities. Journal of Geophysical Research: Space Physics, 2017, 122, 156-165.	2.4	9
83	Saturn's Innermost Radiation Belt Throughout and Inward of the Dâ€™Ring. Geophysical Research Letters, 2018, 45, 10,912.	4.0	9
84	Solar wind periodicity in energetic electrons at Saturn. Geophysical Research Letters, 2009, 36, .	4.0	8
85	Longitude dependences of energetic H ⁺ and O ⁺ at Saturn. Journal of Geophysical Research, 2010, 115, .	3.3	7
86	Meridional maps of Saturn's thermal electrons. Journal of Geophysical Research: Space Physics, 2014, 119, 1721-1733.	2.4	7
87	Local time dependences of oxygen ENA periodicities at Saturn. Journal of Geophysical Research: Space Physics, 2014, 119, 6577-6586.	2.4	6
88	A new spiral model for Saturn's magnetosphere. Geophysical Research Letters, 2016, 43, 501-507.	4.0	6
89	On the sodium tail of comet Hale-Bopp (C/1995 O1). Geophysical Research Letters, 1998, 25, 3261-3264.	4.0	5
90	Wavy magnetodisk in Saturn's outer magnetosphere. Geophysical Research Letters, 2013, 40, 5024-5028.	4.0	5

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91	Doppler effects on periodicities in Saturn's magnetosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 9457-9470.	2.4	5
92	A new approach to Saturn's periodicities. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 6436-6442.	2.4	5
93	Short periodicities in low-frequency plasma waves at Saturn. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 6562-6572.	2.4	5
94	Midnight flash model of energetic neutral atom periodicities at Saturn. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 7110-7117.	2.4	5
95	Energetic Electron Periodicities During the Cassini Grand Finale. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 12,229-12,235.	2.4	5
96	Energetic Electron Pitch Angle Distributions During the Cassini Final Orbits. <i>Geophysical Research Letters</i> , 2018, 45, 2911-2917.	4.0	5
97	Latitude variations in light scattered from polar mesospheric clouds. <i>Geophysical Research Letters</i> , 2001, 28, 2605-2608.	4.0	4
98	Ultraviolet imaging and spectrographic imaging of polar mesospheric clouds. <i>Advances in Space Research</i> , 2003, 31, 2091-2096.	2.6	4
99	Solar periodicity in energetic ions at Saturn. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 1891-1898.	2.4	4
100	Energetic ion acceleration and transport in the upstream region of Jupiter: Voyager 1 and 2. <i>Advances in Space Research</i> , 1983, 3, 77-80.	2.6	3
101	Nighttime O2 and O3 profiles measured by MSX/UVISI using stellar occultation techniques. <i>Geophysical Monograph Series</i> , 2000, , 327-335.	0.1	3
102	The Mysterious Periodicities of Saturn. , 2018, , 97-125.		3
103	The Meridional Magnetic Field Lines of Saturn. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 6264-6276.	2.4	3
104	A New Ring Current Model for Saturn. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 3378-3389.	2.4	3
105	Magnetodisk Coordinates for Saturn. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 451-458.	2.4	3
106	Unusually short period in electrons at Saturn. <i>Geophysical Research Letters</i> , 2012, 39, .	4.0	2
107	Global Maps of Energetic Ions in Saturn's Magnetosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 8557-8571.	2.4	2
108	Three-Dimensional Currents in Saturn's Magnetosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 971-981.	2.4	2

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109	Space Remote Sensing Systems: An Introduction. Eos, 1987, 68, 1131.	0.1	1
110	Analysis Of UV Limb Data From Low Earth Orbit. Proceedings of SPIE, 1989, 1158, 59.	0.8	1
111	Limb Profiles From Low Earth Orbit. , 1989, 1158, 51.		1
112	Middle ultraviolet imager observations of the distribution of polar mesospheric clouds. Advances in Space Research, 2001, 27, 1703-1708.	2.6	1
113	STARS: STellar Absorption and Refraction Sensor. , 2004, , .		1
114	Solar wind periodicities in thermal electrons at Saturn. Journal of Geophysical Research: Space Physics, 2017, 122, 150-155.	2.4	1
115	Saturn's magnetic field periodicities at high latitudes and the effects of spacecraft motion and position. Journal of Geophysical Research: Space Physics, 2017, 122, 1979-1989.	2.4	1
116	Imagers view comet Hale-Bopp's sodium tail. Eos, 1998, 79, 573-574.	0.1	0
117	Energetic Electron Patterns in the New SLS5 Longitude System. Journal of Geophysical Research: Space Physics, 2019, 124, 7889-7897.	2.4	0