

# 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	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
2	A New Ring Current Model for Saturn. Journal of Geophysical Research: Space Physics, 2019, 124, 3378-3389.	2.4	3
3	Energetic Electron Patterns in the New SLS5 Longitude System. Journal of Geophysical Research: Space Physics, 2019, 124, 7889-7897.	2.4	0
4	Magnetodisk Coordinates for Saturn. Journal of Geophysical Research: Space Physics, 2019, 124, 451-458.	2.4	3
5	Three-Dimensional Currents in Saturn's Magnetosphere. Journal of Geophysical Research: Space Physics, 2019, 124, 971-981.	2.4	2
6	The Mysterious Periodicities of Saturn. , 2018, , 97-125.		3
7	Energetic Ion Moments and Polytopic Index in Saturn's Magnetosphere using Cassini/MIMI Measurements: A Simple Model Based on $\langle i \rangle^p / i$ Distribution Functions. Journal of Geophysical Research: Space Physics, 2018, 123, 8066-8086.	2.4	34
8	A radiation belt of energetic protons located between Saturn and its rings. Science, 2018, 362, .	12.6	27
9	Dust grains fall from Saturn's D-ring into its equatorial upper atmosphere. Science, 2018, 362, .	12.6	37
10	Saturn's Innermost Radiation Belt Throughout and Inward of the D-Ring. Geophysical Research Letters, 2018, 45, 10,912.	4.0	9
11	The Meridional Magnetic Field Lines of Saturn. Journal of Geophysical Research: Space Physics, 2018, 123, 6264-6276.	2.4	3
12	Global Maps of Energetic Ions in Saturn's Magnetosphere. Journal of Geophysical Research: Space Physics, 2018, 123, 8557-8571.	2.4	2
13	Energetic Electron Pitch Angle Distributions During the Cassini Final Orbits. Geophysical Research Letters, 2018, 45, 2911-2917.	4.0	5
14	Solar wind periodicities in thermal electrons at Saturn. Journal of Geophysical Research: Space Physics, 2017, 122, 150-155.	2.4	1
15	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
16	Midnight flash model of energetic neutral atom periodicities at Saturn. Journal of Geophysical Research: Space Physics, 2017, 122, 7110-7117.	2.4	5
17	Energetic Electron Periodicities During the Cassini Grand Finale. Journal of Geophysical Research: Space Physics, 2017, 122, 12,229-12,235.	2.4	5
18	Update on Saturn's energetic electron periodicities. Journal of Geophysical Research: Space Physics, 2017, 122, 156-165.	2.4	9

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19	Short periodicities in low-frequency plasma waves at Saturn. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 6562-6572.	2.4	5
20	A new spiral model for Saturn's magnetosphere. <i>Geophysical Research Letters</i> , 2016, 43, 501-507.	4.0	6
21	Seasonal variations in Saturn's plasma sheet warping. <i>Geophysical Research Letters</i> , 2016, 43, 11,957.	4.0	12
22	Recurrent pulsations in Saturn's high latitude magnetosphere. <i>Icarus</i> , 2016, 263, 94-100.	2.5	32
23	Doppler effects on periodicities in Saturn's magnetosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 9457-9470.	2.4	5
24	Saturn's hinge parameter from Cassini magnetotail passes in 2013-2014. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 4438-4445.	2.4	9
25	A new approach to Saturn's periodicities. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 6436-6442.	2.4	5
26	Local time dependences of oxygen ENA periodicities at Saturn. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 6577-6586.	2.4	6
27	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
28	The variable extension of Saturn's electron radiation belts. <i>Planetary and Space Science</i> , 2014, 104, 3-17.	1.7	27
29	Meridional maps of Saturn's thermal electrons. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 1721-1733.	2.4	7
30	Keogram analysis of ENA images at Saturn. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 1771-1780.	2.4	17
31	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
32	Longitude dependences of Saturn's ultraviolet aurora. <i>Geophysical Research Letters</i> , 2013, 40, 1902-1906.	4.0	18
33	Periodicities in Saturn's magnetosphere. <i>Reviews of Geophysics</i> , 2013, 51, 1-30.	23.0	87
34	Solar periodicity in energetic ions at Saturn. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 1891-1898.	2.4	4
35	Wavy magnetodisk in Saturn's outer magnetosphere. <i>Geophysical Research Letters</i> , 2013, 40, 5024-5028.	4.0	5
36	The morphology of Saturn's ultraviolet aurora. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	41

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37	Unusually short period in electrons at Saturn. Geophysical Research Letters, 2012, 39, .	4.0	2
38	Statistical ring current of Saturn. Journal of Geophysical Research, 2012, 117, n/a-n/a.	3.3	14
39	Energetic charged particle weathering of Saturn's inner satellites. Planetary and Space Science, 2012, 61, 60-65.	1.7	31
40	Pitch angle distributions of energetic electrons at Saturn. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	25
41	TIMED/GUVI observation of solar illumination effect on auroral energy deposition. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	20
42	ENA periodicities and their phase relations to SKR emissions at Saturn. Geophysical Research Letters, 2011, 38, n/a-n/a.	4.0	9
43	Post-equinox periodicities in Saturn's energetic electrons. Geophysical Research Letters, 2011, 38, n/a-n/a.	4.0	10
44	Energetic electron spectra in Saturn's plasma sheet. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	10
45	Phase relations between energetic neutral atom intensities and kilometric radio emissions at Saturn. Journal of Geophysical Research, 2010, 115, .	3.3	10
46	Asymmetries in Saturn's radiation belts. Journal of Geophysical Research, 2010, 115, .	3.3	28
47	Longitude dependences of energetic H <sup>+</sup> and O <sup>+</sup> at Saturn. Journal of Geophysical Research, 2010, 115, .	3.3	7
48	Global configuration of Saturn's magnetic field derived from observations. Geophysical Research Letters, 2010, 37, .	4.0	11
49	Saturn's periodic magnetic field perturbations caused by a rotating partial ring current. Geophysical Research Letters, 2010, 37, .	4.0	37
50	Recurrent energization of plasma in the midnight-to-dawn quadrant of Saturn's magnetosphere, and its relationship to auroral UV and radio emissions. Planetary and Space Science, 2009, 57, 1732-1742.	1.7	140
51	Energetic particles in Saturn's magnetosphere during the Cassini nominal mission (July 2004â€“July) Tj ETQq1 1 0.784314 rgBT /Over bo	1.7	33
52	Energetic neutral atom (ENA) and charged particle periodicities in Saturn's magnetosphere. Advances in Space Research, 2009, 44, 483-493.	2.6	14
53	Discovery of a north-south asymmetry in Saturn's radio rotation period. Geophysical Research Letters, 2009, 36, .	4.0	143
54	Dual periodicities in energetic electrons at Saturn. Geophysical Research Letters, 2009, 36, .	4.0	30

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55	Solar wind periodicity in energetic electrons at Saturn. <i>Geophysical Research Letters</i> , 2009, 36, .	4.0	8
56	L shell distribution of energetic electrons at Saturn. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	24
57	Ion conics and electron beams associated with auroral processes on Saturn. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	81
58	The Dynamics of Saturn's Magnetosphere. , 2009, , 257-279.		35
59	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
60	Track analysis of energetic neutral atom blobs at Saturn. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	19
61	Statistical morphology of ENA emissions at Saturn. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	48
62	ENA periodicities at Saturn. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	57
63	Understanding the global evolution of Saturn's ring current. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	30
64	Direct observation of warping in the plasma sheet of Saturn. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	19
65	Periodic tilting of Saturn's plasma sheet. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	44
66	Electron periodicities in Saturn's outer magnetosphere. <i>Journal of Geophysical Research</i> , 2007, 112, n/a-n/a.	3.3	27
67	Evidence for spiral pattern in Saturn's magnetosphere using the new SKR longitudes. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	36
68	Spinâ€period effects in magnetospheres with no axial tilt. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	23
69	Charged particle periodicities in Saturn's outer magnetosphere. <i>Journal of Geophysical Research</i> , 2007, 112, n/a-n/a.	3.3	53
70	AKp-based model of auroral boundaries. <i>Space Weather</i> , 2005, 3, n/a-n/a.	3.7	47
71	Spectrum of a Leonid meteor from 110 to 860 nm. <i>Advances in Space Research</i> , 2004, 33, 1455-1458.	2.6	10
72	Correlation of LBH intensities with precipitating particle energies. <i>Geophysical Research Letters</i> , 2004, 31, n/a-n/a.	4.0	11

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73	Evidence for bimodal particle distribution from the spectra of polar mesospheric clouds. Geophysical Research Letters, 2004, 31, n/a-n/a.	4.0	18
74	STARS: STellar Absorption and Refraction Sensor. , 2004, , .		1
75	Leonid meteor spectrum from 110 to 860 nm. Icarus, 2003, 161, 223-234.	2.5	25
76	Ultraviolet imaging and spectrographic imaging of polar mesospheric clouds. Advances in Space Research, 2003, 31, 2091-2096.	2.6	4
77	Auroral boundary correlations between UVI and DMSP. Journal of Geophysical Research, 2003, 108, SIA 2-1.	3.3	45
78	Correlation of auroral power with the polar cap index. Journal of Geophysical Research, 2003, 108, .	3.3	34
79	Maps of polar mesospheric clouds. Journal of Geophysical Research, 2003, 108, .	3.3	14
80	OVATION: Oval variation, assessment, tracking, intensity, and online nowcasting. Annales Geophysicae, 2002, 20, 1039-1047.	1.6	54
81	Atmospheric remote sensing using a combined extinctive and refractive stellar occultation technique 1. Overview and proof-of-concept observations. Journal of Geophysical Research, 2002, 107, ACH 15-1.	3.3	30
82	Atmospheric remote sensing using a combined extinctive and refractive stellar occultation technique 3. Inversion method for refraction measurements. Journal of Geophysical Research, 2002, 107, ACH 7-1.	3.3	11
83	Particle characteristics from the spectra of polar mesospheric clouds. Journal of Geophysical Research, 2002, 107, AAC 5-1-AAC 5-12.	3.3	19
84	Hemispheric comparison of PMC altitudes. Geophysical Research Letters, 2001, 28, 725-728.	4.0	20
85	Midcourse Space Experiment/Ultraviolet and Visible Imaging and Spectrographic Imaging limb observations of combined proton/hydrogen/electron aurora. Journal of Geophysical Research, 2001, 106, 65-75.	3.3	15
86	Latitude variations in light scattered from polar mesospheric clouds. Geophysical Research Letters, 2001, 28, 2605-2608.	4.0	4
87	Middle ultraviolet imager observations of the distribution of polar mesospheric clouds. Advances in Space Research, 2001, 27, 1703-1708.	2.6	1
88	Nighttime O2 and O3 profiles measured by MSX/UVISI using stellar occultation techniques. Geophysical Monograph Series, 2000, , 327-335.	0.1	3
89	Transpolar structure of polar mesospheric clouds. Journal of Geophysical Research, 2000, 105, 24763-24769.	3.3	20
90	â€œBlobâ€•analysis of auroral substorm dynamics. Journal of Geophysical Research, 2000, 105, 16083-16091.	3.3	24

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91	Altitudes of polar mesospheric clouds observed by a middle ultraviolet imager. Journal of Geophysical Research, 1999, 104, 10089-10100.	3.3	26
92	Imagers view comet Hale-Bopp's sodium tail. Eos, 1998, 79, 573-574.	0.1	0
93	On the sodium tail of comet Hale-Bopp (C/1995 O1). Geophysical Research Letters, 1998, 25, 3261-3264.	4.0	5
94	Ultraviolet and visible imaging and spectrographic imaging instrument. Applied Optics, 1994, 33, 4201.	2.1	37
95	Structure in the UV nightglow observed from low Earth orbit. Geophysical Research Letters, 1992, 19, 985-988.	4.0	11
96	Analysis Of UV Limb Data From Low Earth Orbit. Proceedings of SPIE, 1989, 1158, 59.	0.8	1
97	Limb Profiles From Low Earth Orbit. , 1989, 1158, 51.		1
98	Space Remote Sensing Systems: An Introduction. Eos, 1987, 68, 1131.	0.1	1
99	Energetic particle transport in the upstream region of Jupiter: Voyager results. Journal of Geophysical Research, 1984, 89, 3775-3787.	3.3	24
100	Energetic ion acceleration and transport in the upstream region of Jupiter: Voyager 1 and 2. Advances in Space Research, 1983, 3, 77-80.	2.6	3
101	General characteristics of hot plasma and energetic particles in the Saturnian magnetosphere: Results from the Voyager spacecraft. Journal of Geophysical Research, 1983, 88, 8871-8892.	3.3	285
102	Corotation anisotropies in Saturn's magnetosphere. Journal of Geophysical Research, 1983, 88, 8937-8946.	3.3	18
103	Energetic particle microsignatures of Saturn's satellites. Journal of Geophysical Research, 1983, 88, 8947-8958.	3.3	53
104	Low-Energy Hot Plasma and Particles in Saturn's Magnetosphere. Science, 1982, 215, 571-577.	12.6	57
105	The spokes in Saturn's rings: A new approach. Geophysical Research Letters, 1982, 9, 420-422.	4.0	20
106	Charged particle periodicity in the Saturnian magnetosphere. Geophysical Research Letters, 1982, 9, 1073-1076.	4.0	68
107	A high time resolution study of the solar wind-magnetosphere energy coupling function. Planetary and Space Science, 1982, 30, 537-543.	1.7	13
108	Energetic particle events ( $\approx 30$ keV) of Jovian origin observed by Voyager 1 and 2 in interplanetary space. Journal of Geophysical Research, 1981, 86, 8125-8140.	3.3	64

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109	Characteristics of hot plasma in the Jovian magnetosphere: Results from the Voyager spacecraft. Journal of Geophysical Research, 1981, 86, 8227-8257.	3.3	210
110	Ion anisotropies in the outer Jovian magnetosphere. Journal of Geophysical Research, 1981, 86, 8285-8299.	3.3	61
111	Low-Energy Charged Particles in Saturn's Magnetosphere: Results from Voyager 1. Science, 1981, 212, 225-231.	12.6	90
112	Periodicities in the Jovian magnetosphere: Magnetodisc models after Voyager. Geophysical Research Letters, 1980, 7, 29-32.	4.0	42
113	Low-Energy Charged Particle Environment at Jupiter: A First Look. Science, 1979, 204, 998-1003.	12.6	133
114	Hot Plasma Environment at Jupiter: Voyager 2 Results. Science, 1979, 206, 977-984.	12.6	140
115	A self-consistent model of a corotating Jovian magnetosphere. Journal of Geophysical Research, 1978, 83, 2603-2608.	3.3	12
116	Planetary spin period acceleration of particles in the Jovian magnetosphere. Journal of Geophysical Research, 1976, 81, 5189-5195.	3.3	42
117	Periodic escape of relativistic electrons from the Jovian magnetosphere. Geophysical Research Letters, 1974, 1, 333-336.	4.0	33