Caitriona M Jackman

List of Publications by Year
in descending order

107	2,996	156536	223390
papers	citations	32 h-index	49 g-index

117	117	117	1449
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Unsupervised detection of Saturn magnetic field boundary crossings from plasma spectrometer data. Computers and Geosciences, 2022, 161, 105040.	2.0	3
2	Observation and origin of non-thermal hard X-rays from Jupiter. Nature Astronomy, 2022, 6, 442-448.	4.2	7
3	Reflection and Refraction of the Lâ€O Mode 5ÂkHz Saturn Narrowband Emission by the Magnetosheath. Geophysical Research Letters, 2022, 49, .	1.5	3
4	Wind/WAVES Observations of Auroral Kilometric Radiation: Automated Burst Detection and Terrestrial Solar Wind â€•Magnetosphere Coupling Effects. Journal of Geophysical Research: Space Physics, 2022, 127, .	0.8	9
5	Effect of an Interplanetary Coronal Mass Ejection on Saturnâ€™s Radio Emission. Frontiers in Astronomy and Space Sciences, 2022, 9, .	1.1	2
6	Jupiter's Xâ€Ray and UV Dark Polar Region. Geophysical Research Letters, 2022, 49, .	1.5	6
7	On the Considerations of Using Near Real Time Data for Space Weather Hazard Forecasting. Space Weather, 2022, 20, .	1.3	5
8	Dawnâ€Dusk Asymmetry in Energetic (>20ÂkeV) Particles Adjacent to Saturn's Magnetopause. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA028264.	0.8	1
9	Machine Learning Applications to Kronian Magnetospheric Reconnection Classification. Frontiers in Astronomy and Space Sciences, 2021, 7, .	1.1	5
10	Searching for Saturnâ€™s X-rays during a rare Jupiter Magnetotail crossing using Chandra. Monthly Notices of the Royal Astronomical Society, 2021, 506, 298-305.	1.6	10
11	Kronian Magnetospheric Reconnection Statistics Across Cassiniâ€™s Lifetime. Journal of Geophysical Research: Space Physics, 2021, 126, e2021JA029361.	0.8	3
12	First results from the REAL-time Transient Acquisition backend (REALTA) at the Irish LOFAR station. Astronomy and Astrophysics, 2021, 655, A16.	2.1	5
13	Forecasting the Probability of Large Rates of Change of the Geomagnetic Field in the UK: Timescales, Horizons, and Thresholds. Space Weather, 2021, 19, e2021SW002788.	1.3	10
14	Characteristics of Jupiter's Xâ€Ray Auroral Hot Spot Emissions Using Chandra. Journal of Geophysical Research: Space Physics, 2021, 126, e2021JA029243.	0.8	8
15	Empirical Selection of Auroral Kilometric Radiation During a Multipoint Remote Observation With Wind and Cassini. Journal of Geophysical Research: Space Physics, 2021, 126, e2021JA029425.	0.8	5
16	Heavy Ion Charge States in Jupiter's Polar Magnetosphere Inferred From Auroral Megavolt Electric Potentials. Journal of Geophysical Research: Space Physics, 2020, 125, e2020JA028052.	0.8	21
17	Jupiter's Xâ€ray Emission During the 2007 Solar Minimum. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027219.	0.8	17
18	Comparisons Between Jupiter's Xâ€ray, UV and Radio Emissions and Inâ€Situ Solar Wind Measurements During 2007. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027222.	0.8	24

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19	Temporal and Spectral Studies by XMMâ€Newton of Jupiter's Xâ€ray Auroras During a Compression Event. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027676.	0.8	20
20	Chandra Observations of Jupiter's Xâ€ray Auroral Emission During Juno Apojove 2017. Journal of Geophysical Research E: Planets, 2020, 125, e2019JE006262.	1.5	16
21	Acceleration of Ions in Jovian Plasmoids: Does Turbulence Play a Role?. Journal of Geophysical Research: Space Physics, 2019, 124, 5056-5069.	0.8	7
22	Survey of Saturn's Magnetopause and Bow Shock Positions Over the Entire Cassini Mission: Boundary Statistical Properties and Exploration of Associated Upstream Conditions. Journal of Geophysical Research: Space Physics, 2019, 124, 8865-8883.	0.8	19
23	How Well Can We Estimate Pedersen Conductance From the THEMIS Whiteâ€Light Allâ€Sky Cameras?. Journal of Geophysical Research: Space Physics, 2019, 124, 2920-2934.	0.8	11
24	Solar Wind Dynamic Pressure Upstream From Saturn: Estimation From Magnetosheath Properties and Comparison With SKR. Journal of Geophysical Research: Space Physics, 2019, 124, 7799-7819.	0.8	4
25	The Contribution of Flux Transfer Events to Mercury's Dungey Cycle. Geophysical Research Letters, 2019, 46, 14239-14246.	1.5	6
26	Survey of Magnetosheath Plasma Properties at Saturn and Inference of Upstream Flow Conditions. Journal of Geophysical Research: Space Physics, 2018, 123, 2034-2053.	0.8	15
27	Seasonal and Temporal Variations of Fieldâ€Aligned Currents and Ground Magnetic Deflections During Substorms. Journal of Geophysical Research: Space Physics, 2018, 123, 2696-2713.	0.8	19
28	Lowâ€Frequency Extensions of the Saturn Kilometric Radiation as a Proxy for Magnetospheric Dynamics. Journal of Geophysical Research: Space Physics, 2018, 123, 443-463.	0.8	22
29	Evaluating Singleâ€Spacecraft Observations of Planetary Magnetotails With Simple Monte Carlo Simulations: 1. Spatial Distributions of the Neutral Line. Journal of Geophysical Research: Space Physics, 2018, 123, 10109-10123.	0.8	5
30	Tailward Propagation of Magnetic Energy Density Variations With Respect to Substorm Onset Times. Journal of Geophysical Research: Space Physics, 2018, 123, 4741-4754.	0.8	11
31	Planetary Period Modulation of Reconnection Bursts in Saturn's Magnetotail. Journal of Geophysical Research: Space Physics, 2018, 123, 9476-9507.	0.8	17
32	Evaluating Single Spacecraft Observations of Planetary Magnetotails With Simple Monte Carlo Simulations: 2. Magnetic Flux Rope Signature Selection Effects. Journal of Geophysical Research: Space Physics, 2018, 123, 10124-10138.	0.8	7
33	Heliospheric Conditions at Saturn During Cassini's Ringâ€Grazing and Proximal Orbits. Geophysical Research Letters, 2018, 45, 10812-10818.	1.5	14
34	Energization of the Ring Current by Substorms. Journal of Geophysical Research: Space Physics, 2018, 123, 8131-8148.	0.8	22
35	Assessing Quasiâ€Periodicities in Jovian Xâ€Ray Emissions: Techniques and Heritage Survey. Journal of Geophysical Research: Space Physics, 2018, 123, 9204-9221.	0.8	23
36	Multiâ€instrument Investigation of the Location of Saturn's Magnetotail Xâ€Line. Journal of Geophysical Research: Space Physics, 2018, 123, 5494-5505.	0.8	7

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37	Dipolarization Fronts With Associated Energized Electrons in Saturn's Magnetotail. Journal of Geophysical Research: Space Physics, 2018, 123, 2714-2735.	0.8	14
38	Automated forceâ€free flux rope identification. Journal of Geophysical Research: Space Physics, 2017, 122, 780-791.	0.8	15
39	Birkeland currents during substorms: Statistical evidence for intensification of Regions 1 and 2 currents after onset and a localized signature of auroral dimming. Journal of Geophysical Research: Space Physics, 2017, 122, 6455-6468.	0.8	21
40	The independent pulsations of Jupiterâ€™s northern and southern X-ray auroras. Nature Astronomy, 2017, 1, 758-764.	4.2	49
41	Energy-banded ions in Saturn's magnetosphere. Journal of Geophysical Research: Space Physics, 2017, 122, 5181-5202.	0.8	3
42	Radial and local time structure of the Saturnian ring current, revealed by Cassini. Journal of Geophysical Research: Space Physics, 2017, 122, 1803-1815.	0.8	34
43	Flux ropes in the Hermean magnetotail: Distribution, properties, and formation. Journal of Geophysical Research: Space Physics, 2017, 122, 8136-8153.	0.8	23
44	Planetary period modulations of Saturn's magnetotail current sheet: A simple illustrative mathematical model. Journal of Geophysical Research: Space Physics, 2017, 122, 258-279.	0.8	15
45	Evidence for periodic variations in the thickness of Saturn's nightside plasma sheet. Journal of Geophysical Research: Space Physics, 2017, 122, 280-292.	0.8	30
46	How does the Sun Influence the Magnetospheres of Jupiter and Saturn?. Proceedings of the International Astronomical Union, 2017, 13, 109-113.	0.0	0
47	The impact of an ICME on the Jovian Xâ€ray aurora. Journal of Geophysical Research: Space Physics, 2016, 121, 2274-2307.	0.8	51
48	Reconnection events in Saturn's magnetotail: Dependence of plasmoid occurrence on planetary period oscillation phase. Journal of Geophysical Research: Space Physics, 2016, 121, 2922-2934.	0.8	24
49	Magnetic reconnection in Saturn's magnetotail: A comprehensive magnetic field survey. Journal of Geophysical Research: Space Physics, 2016, 121, 2984-3005.	0.8	31
50	Cassini observations of ionospheric plasma in Saturn's magnetotail lobes. Journal of Geophysical Research: Space Physics, 2016, 121, 338-357.	0.8	16
51	Identifying the magnetotail lobes with Cluster magnetometer data. Journal of Geophysical Research: Space Physics, 2016, 121, 1436-1446.	0.8	6
52	What effect do substorms have on the content of the radiation belts?. Journal of Geophysical Research: Space Physics, 2016, 121, 6292-6306.	0.8	40
53	Cassini in situ observations of long-duration magnetic reconnection in Saturnâ€™s magnetotail. Nature Physics, 2016, 12, 268-271.	6.5	35
54	Effects of radial motion on interchange injections at Saturn. Icarus, 2016, 264, 342-351.	1.1	33

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55	Magnetic Reconnection and Associated Transient Phenomena Within the Magnetospheres of Jupiter and Saturn. Space Sciences Series of ISSI, 2016, , 181-227.	0.0	1
56	A Review of General Physical and Chemical Processes Related to Plasma Sources and Losses for Solar System Magnetospheres. Space Sciences Series of ISSI, 2016, , 27-89.	0.0	0
57	Saturn Plasma Sources and Associated Transport Processes. Space Sciences Series of ISSI, 2016, , 237-283.	0.0	1
58	Sustained lobe reconnection in Saturn's magnetotail. Journal of Geophysical Research: Space Physics, 2015, 120, 10,257.	0.8	18
59	A new technique for determining Substorm Onsets and Phases from Indices of the Electrojet (SOPHIE). Journal of Geophysical Research: Space Physics, 2015, 120, 10,592.	0.8	78
60	Saturn Plasma Sources and Associated Transport Processes. Space Science Reviews, 2015, 192, 237-283.	3.7	25
61	Effects of Saturn's magnetospheric dynamics on Titan's ionosphere. Journal of Geophysical Research: Space Physics, 2015, 120, 8884-8898.	0.8	11
62	Downâ€tail mass loss by plasmoids in Jupiter's and Saturn's magnetospheres. Journal of Geophysical Research: Space Physics, 2015, 120, 6347-6356.	0.8	28
63	Field dipolarization in Saturn's magnetotail with planetward ion flows and energetic particle flow bursts: Evidence of quasiâ€steady reconnection. Journal of Geophysical Research: Space Physics, 2015, 120, 3603-3617.	0.8	20
64	Plasmapause formation at Saturn. Journal of Geophysical Research: Space Physics, 2015, 120, 2571-2583.	0.8	25
65	Jupiterâ€™s Magnetosphere: Plasma Sources and Transport. Space Science Reviews, 2015, 192, 209-236.	3.7	19
66	MESSENGER observations of flux ropes in Mercuryâ€™s magnetotail. Planetary and Space Science, 2015, 115, 77-89.	0.9	71
67	Sources of Local Time Asymmetries in Magnetodiscs. Space Science Reviews, 2015, 187, 301-333.	3.7	13
68	A Review of General Physical and Chemical Processes Related to Plasma Sources and Losses for Solar System Magnetospheres. Space Science Reviews, 2015, 192, 27-89.	3.7	16
69	Magnetic Reconnection and Associated Transient Phenomena Within the Magnetospheres of Jupiter and Saturn. Space Science Reviews, 2015, 187, 181-227.	3.7	16
70	Saturn's elusive nightside polar arc. Geophysical Research Letters, 2014, 41, 6321-6328.	1.5	15
71	Plasma flows in Saturn's nightside magnetosphere. Journal of Geophysical Research: Space Physics, 2014, 119, 4521-4535.	0.8	34
72	Increases in plasma sheet temperature with solar wind driving during substorm growth phases. Geophysical Research Letters, 2014, 41, 8713-8721.	1.5	22

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73	Large-Scale Structure and Dynamics of the Magnetotails of Mercury, Earth, Jupiter and Saturn. Space Science Reviews, 2014, 182, 85-154.	3.7	41
74	Open flux in Saturnâ€™s magnetosphere. Icarus, 2014, 231, 137-145.	1.1	43
75	Structure and statistical properties of plasmoids in Jupiter's magnetotail. Journal of Geophysical Research: Space Physics, 2014, 119, 821-843.	0.8	54
76	Saturn's dynamic magnetotail: A comprehensive magnetic field and plasma survey of plasmoids and traveling compression regions and their role in global magnetospheric dynamics. Journal of Geophysical Research: Space Physics, 2014, 119, 5465-5494.	0.8	69
77	Ion composition in interchange injection events in Saturn's magnetosphere. Journal of Geophysical Research: Space Physics, 2014, 119, 9761-9772.	0.8	23
78	Auroral counterpart of magnetic field dipolarizations in Saturn's tail. Planetary and Space Science, 2013, 82-83, 34-42.	0.9	53
79	Cassini/CAPS observations of duskside tail dynamics at Saturn. Journal of Geophysical Research: Space Physics, 2013, 118, 5767-5781.	0.8	39
80	Particle and magnetic field properties of the Saturnian magnetosheath: Presence and upstream escape of hot magnetospheric plasma. Journal of Geophysical Research: Space Physics, 2013, 118, 1620-1634.	0.8	33
81	Comparative magnetotail flapping: an overview of selected events at Earth, Jupiter and Saturn. Annales Geophysicae, 2013, 31, 817-833.	0.6	32
82	Saturn's magnetospheric refresh rate. Geophysical Research Letters, 2013, 40, 2479-2483.	1.5	18
83	Dual periodicities in planetaryâ€period magnetic field oscillations in Saturn's tail. Journal of Geophysical Research, 2012, 117, .	3.3	70
84	Statistical properties of the magnetic field in the Kronian magnetotail lobes and current sheet. Journal of Geophysical Research, 2011, 116, .	3.3	39
85	Energetic particle phase space densities at Saturn: Cassini observations and interpretations. Journal of Geophysical Research, 2011, 116, .	3.3	51
86	Cassini observations of plasmoid structure and dynamics: Implications for the role of magnetic reconnection in magnetospheric circulation at Saturn. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	73
87	Periodic motion of Saturn's nightside plasma sheet. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	84
88	Solar Cycle Effects on the Dynamics of Jupiterâ€™s and Saturnâ€™s Magnetospheres. Solar Physics, 2011, 274, 481-502.	1.0	59
89	Upstream of Saturn and Titan. Space Science Reviews, 2011, 162, 25-83.	3.7	52
90	Observation of saturnian stream particles in the interplanetary space. Icarus, 2010, 206, 653-661.	1.1	17

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91	Interaction of the solar wind and stream particles, results from the Cassini dust detector. , 2010, , .		6
92	In situ observations of the effect of a solar wind compression on Saturn's magnetotail. Journal of Geophysical Research, 2010, 115, .	3.3	33
93	Outer planet magnetospheres: influences, interactions and dynamics. Astronomy and Geophysics, 2009, 50, 2.28-2.30.	0.1	0
94	Northward field excursions in Saturn's magnetotail and their relationship to magnetospheric periodicities. Geophysical Research Letters, 2009, 36, .	1.5	41
95	On the character and distribution of lowerâ€frequency radio emissions at Saturn and their relationship to substormâ€like events. Journal of Geophysical Research, 2009, 114, .	3.3	57
96	Cassini encounters with hot flow anomalyâ€like phenomena at Saturn's bow shock. Geophysical Research Letters, 2008, 35, .	1.5	22
97	Plasmoids in Saturn's magnetotail. Journal of Geophysical Research, 2008, 113, .	3.3	79
98	Titanâ€™s influence on Saturnian substorm occurrence. Geophysical Research Letters, 2008, 35, .	1.5	40
99	The overall configuration of the interplanetary magnetic field upstream of Saturn as revealed by Cassini observations. Journal of Geophysical Research, 2008, 113, .	3.3	48
100	Largeâ€scale dynamics of Saturn's magnetopause: Observations by Cassini. Journal of Geophysical Research, 2008, 113, .	3.3	86
101	A multiâ€instrument view of tail reconnection at Saturn. Journal of Geophysical Research, 2008, 113, .	3.3	48
102	Strong rapid dipolarizations in Saturn's magnetotail: In situ evidence of reconnection. Geophysical Research Letters, 2007, 34, .	1.5	93
103	Implications of rapid planetary rotation for the Dungey magnetotail of Saturn. Journal of Geophysical Research, 2005, 110, .	3.3	24
104	Reconnection in a rotation-dominated magnetosphere and its relation to Saturn's auroral dynamics. Journal of Geophysical Research, 2005, 110, .	3.3	151
105	Interplanetary conditions and magnetospheric dynamics during the Cassini orbit insertion fly-through of Saturn's magnetosphere. Journal of Geophysical Research, 2005, 110, .	3.3	33
106	Interplanetary magnetic field at â^¼9 AU during the declining phase of the solar cycle and its implications for Saturn's magnetospheric dynamics. Journal of Geophysical Research, 2004, 109, .	3.3	114
107	Classification of Cassiniâ€™s Orbit Regions as Magnetosphere, Magnetosheath, and Solar Wind via Machine Learning. Frontiers in Astronomy and Space Sciences, 0, 9, .	1.1	3