Christopher Arridge

List of Publications by Year in descending order

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66343 106344 5,261 138 42 65 citations h-index g-index papers 143 143 143 1798 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	Cassini Magnetometer Observations During Saturn Orbit Insertion. Science, 2005, 307, 1266-1270.	12.6	211
2	Warping of Saturn's magnetospheric and magnetotail current sheets. Journal of Geophysical Research, 2008, 113 , .	3.3	148
3	A new form of Saturn's magnetopause using a dynamic pressure balance model, based on in situ, multiâ€instrument Cassini measurements. Journal of Geophysical Research, 2010, 115, .	3.3	145
4	Titan's Magnetic Field Signature During the First Cassini Encounter. Science, 2005, 308, 992-995.	12.6	133
5	Modeling the size and shape of Saturn's magnetopause with variable dynamic pressure. Journal of Geophysical Research, 2006, 111 , .	3.3	133
6	Origin of Saturn's aurora: Simultaneous observations by Cassini and the Hubble Space Telescope. Journal of Geophysical Research, 2008, 113, .	3.3	127
7	Cassini observations of the variation of Saturn's ring current parameters with system size. Journal of Geophysical Research, 2007, 112, .	3.3	108
8	Ionospheric electrons in Titan's tail: Plasma structure during the Cassini T9 encounter. Geophysical Research Letters, 2007, 34, .	4.0	103
9	Cassini observations of a Kelvinâ€Helmholtz vortex in Saturn's outer magnetosphere. Journal of Geophysical Research, 2010, 115, .	3.3	100
10	Strong rapid dipolarizations in Saturn's magnetotail: In situ evidence of reconnection. Geophysical Research Letters, 2007, 34, .	4.0	93
11	Saturn's magnetodisc current sheet. Journal of Geophysical Research, 2008, 113, .	3.3	89
12	Largeâ€scale dynamics of Saturn's magnetopause: Observations by Cassini. Journal of Geophysical Research, 2008, 113, .	3.3	86
13	Fine jet structure of electrically charged grains in Enceladus' plume. Geophysical Research Letters, 2009, 36, .	4.0	86
14	Plasma in Saturn's nightside magnetosphere and the implications for global circulation. Planetary and Space Science, 2009, 57, 1714-1722.	1.7	85
15	Periodic motion of Saturn's nightside plasma sheet. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	84
16	Polarization and phase of planetaryâ€period magnetic field oscillations on highâ€latitude field lines in Saturn's magnetosphere. Journal of Geophysical Research, 2009, 114, .	3.3	83
17	Titan's near magnetotail from magnetic field and electron plasma observations and modeling: Cassini flybys TA, TB, and T3. Journal of Geophysical Research, 2006, 111, .	3.3	82
18	Derivation of density and temperature from the Cassini–Huygens CAPS electron spectrometer. Planetary and Space Science, 2008, 56, 901-912.	1.7	81

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19	Sources of rotational signals in Saturn's magnetosphere. Journal of Geophysical Research, 2009, 114, .	3.3	74
20	Properties of Saturn kilometric radiation measured within its source region. Geophysical Research Letters, 2010, 37, .	4.0	74
21	A model of force balance in Saturn's magnetodisc. Monthly Notices of the Royal Astronomical Society, 2010, 401, 2349-2371.	4.4	73
22	Dual periodicities in planetaryâ€period magnetic field oscillations in Saturn's tail. Journal of Geophysical Research, 2012, 117, .	3.3	70
23	Surface waves on Saturn's dawn flank magnetopause driven by the Kelvin–Helmholtz instability. Planetary and Space Science, 2009, 57, 1769-1778.	1.7	68
24	The evolution of solar wind strahl with heliospheric distance. Journal of Geophysical Research: Space Physics, 2017, 122, 3858-3874.	2.4	61
25	Auroral current systems in Saturn's magnetosphere: comparison of theoretical models with Cassini and HST observations. Annales Geophysicae, 2008, 26, 2613-2630.	1.6	60
26	Saturn's inner magnetospheric convection pattern: Further evidence. Journal of Geophysical Research, 2012, 117, .	3.3	60
27	Solar Cycle Effects on the Dynamics of Jupiter's and Saturn's Magnetospheres. Solar Physics, 2011, 274, 481-502.	2.5	59
28	Mass of Saturn's magnetodisc: Cassini observations. Geophysical Research Letters, 2007, 34, .	4.0	57
29	Magnetic field structure of Saturn's dayside magnetosphere and its mapping to the ionosphere: Results from ring current modeling. Journal of Geophysical Research, 2008, 113, .	3.3	57
30	Particle pressure, inertial force, and ring current density profiles in the magnetosphere of Saturn, based on Cassini measurements. Geophysical Research Letters, 2010, 37, .	4.0	57
31	The variability of Titan's magnetic environment. Planetary and Space Science, 2009, 57, 1813-1820.	1.7	56
32	The science case for an orbital mission to Uranus: Exploring the origins and evolution of ice giant planets. Planetary and Space Science, 2014, 104, 122-140.	1.7	56
33	Upstream of Saturn and Titan. Space Science Reviews, 2011, 162, 25-83.	8.1	52
34	An empirical model of Saturn's bow shock: Cassini observations of shock location and shape. Journal of Geophysical Research, 2008, 113, .	3.3	51
35	Orientation, location, and velocity of Saturn's bow shock: Initial results from the Cassini spacecraft. Journal of Geophysical Research, 2006, 111, .	3.3	50
36	Reconnection at the magnetopause of Saturn: Perspective from FTE occurrence and magnetosphere size. Journal of Geophysical Research, 2012, 117, .	3.3	50

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37	Auroral signatures of multiple magnetopause reconnection at Saturn. Geophysical Research Letters, 2013, 40, 4498-4502.	4.0	50
38	A multiâ€instrument view of tail reconnection at Saturn. Journal of Geophysical Research, 2008, 113, .	3.3	48
39	Magnetopause oscillations near the planetary period at Saturn: Occurrence, phase, and amplitude. Journal of Geophysical Research, 2010, 115, .	3.3	48
40	Nature of magnetic fluctuations in Saturn's middle magnetosphere. Journal of Geophysical Research, 2006, 111, .	3.3	47
41	Cassini observations of ion and electron beams at Saturn and their relationship to infrared auroral arcs. Journal of Geophysical Research, 2012, 117, .	3.3	47
42	Characterization of auroral current systems in Saturn's magnetosphere: Highâ€latitude Cassini observations. Journal of Geophysical Research, 2009, 114, .	3.3	44
43	Uranus Pathfinder: exploring the origins and evolution of Ice Giant planets. Experimental Astronomy, 2012, 33, 753-791.	3.7	44
44	Saturn's Magnetospheric Configuration. , 2009, , 203-255.		44
45	Cassini in Titan's tail: CAPS observations of plasma escape. Journal of Geophysical Research, 2012, 117, .	3.3	43
46	Complex structure within Saturn's infrared aurora. Nature, 2008, 456, 214-217.	27.8	42
47	Thermal electron periodicities at 20 <i>R</i> _{<i>S</i>} in Saturn's magnetosphere. Geophysical Research Letters, 2008, 35, .	4.0	41
48	Plasma electrons in Saturn's magnetotail: Structure, distribution and energisation. Planetary and Space Science, 2009, 57, 2032-2047.	1.7	41
49	Northward field excursions in Saturn's magnetotail and their relationship to magnetospheric periodicities. Geophysical Research Letters, 2009, 36, .	4.0	41
50	Large-Scale Structure and Dynamics of the Magnetotails of Mercury, Earth, Jupiter and Saturn. Space Science Reviews, 2014, 182, 85-154.	8.1	41
51	Dynamics and seasonal variations in Saturn's magnetospheric plasma sheet, as measured by Cassini. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	40
52	Mapping Magnetospheric Equatorial Regions at Saturn from Cassini Prime Mission Observations. Space Science Reviews, 2011, 164, 1-83.	8.1	40
53	Statistical properties of the magnetic field in the Kronian magnetotail lobes and current sheet. Journal of Geophysical Research, 2011, 116 , .	3.3	39
54	Saturn's ring current: Local time dependence and temporal variability. Journal of Geophysical Research, 2011, 116, .	3.3	39

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55	Internally driven largeâ€scale changes in the size of Saturn's magnetosphere. Journal of Geophysical Research: Space Physics, 2015, 120, 7289-7306.	2.4	39
56	Flux transfer event observation at Saturn's dayside magnetopause by the Cassini spacecraft. Geophysical Research Letters, 2016, 43, 6713-6723.	4.0	38
57	Signatures of fieldâ€aligned currents in Saturn's nightside magnetosphere. Geophysical Research Letters, 2009, 36, .	4.0	37
58	Solar Wind and Internally Driven Dynamics: Influences on Magnetodiscs and Auroral Responses. Space Science Reviews, 2015, 187, 51-97.	8.1	36
59	Statistical characteristics of field-aligned currents in Saturn's nightside magnetosphere. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	35
60	Auroral electron distributions within and close to the Saturn kilometric radiation source region. Journal of Geophysical Research, 2011, 116, .	3.3	35
61	Cassini in situ observations of long-duration magnetic reconnection in Saturn's magnetotail. Nature Physics, 2016, 12, 268-271.	16.7	35
62	Cusp observation at Saturn's highâ€latitude magnetosphere by the Cassini spacecraft. Geophysical Research Letters, 2014, 41, 1382-1388.	4.0	34
63	CMI growth rates for Saturnian kilometric radiation. Geophysical Research Letters, 2010, 37, .	4.0	33
64	Influence of hot plasma pressure on the global structure of Saturn's magnetodisk. Geophysical Research Letters, 2010, 37, .	4.0	33
65	In situ observations of the effect of a solar wind compression on Saturn's magnetotail. Journal of Geophysical Research, 2010, 115, .	3.3	33
66	Analysis of a coronal mass ejection and corotating interaction region as they travel from the Sun passing Venus, Earth, Mars, and Saturn. Journal of Geophysical Research: Space Physics, 2015, 120, 1566-1588.	2.4	33
67	Formation of Saturn's ring spokes by lightning-induced electron beams. Geophysical Research Letters, 2006, 33, .	4.0	32
68	The effect of spacecraft radiation sources on electron moments from the Cassini CAPS electron spectrometer. Planetary and Space Science, 2009, 57, 854-869.	1.7	32
69	Hot flow anomalies at Saturn's bow shock. Journal of Geophysical Research, 2009, 114, .	3.3	32
70	Comparative magnetotail flapping: an overview of selected events at Earth, Jupiter and Saturn. Annales Geophysicae, 2013, 31, 817-833.	1.6	32
71	Rotationally driven magnetic reconnection in Saturn's dayside. Nature Astronomy, 2018, 2, 640-645.	10.1	32
72	The calibration of the Cassini–Huygens CAPS Electron Spectrometer. Planetary and Space Science, 2010, 58, 427-436.	1.7	31

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73	Electron beams as the source of whistlerâ€mode auroral hiss at Saturn. Geophysical Research Letters, 2010, 37, .	4.0	31
74	Extraordinary fieldâ€aligned current signatures in Saturn's highâ€latitude magnetosphere: Analysis of Cassini data during Revolution 89. Journal of Geophysical Research, 2010, 115, .	3.3	31
75	Cassini multiâ€instrument assessment of Saturn's polar cap boundary. Journal of Geophysical Research: Space Physics, 2014, 119, 8161-8177.	2.4	31
76	Electron optical study of the Venus Express ASPERA-4 Electron Spectrometer (ELS) top-hat electrostatic analyser. Measurement Science and Technology, 2009, 20, 055204.	2.6	30
77	Outer magnetospheric structure: Jupiter and Saturn compared. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	30
78	The geometric factor of electrostatic plasma analyzers: A case study from the Fast Plasma Investigation for the Magnetospheric Multiscale mission. Review of Scientific Instruments, 2012, 83, 033303.	1.3	30
79	Nature of the ring current in Saturn's dayside magnetosphere. Journal of Geophysical Research, 2010, 115, .	3.3	27
80	Supercorotating return flow from reconnection in Saturn's magnetotail. Geophysical Research Letters, 2011, 38, n/a-n/a.	4.0	24
81	Cassini observations of ionospheric photoelectrons at large distances from Titan: Implications for Titan's exospheric environment and magnetic tail. Journal of Geophysical Research, 2012, 117, .	3.3	24
82	Identification of Saturn's magnetospheric regions and associated plasma processes: Synopsis of Cassini observations during orbit insertion. Reviews of Geophysics, 2008, 46, .	23.0	23
83	Cassini encounters with hot flow anomalyâ€like phenomena at Saturn's bow shock. Geophysical Research Letters, 2008, 35, .	4.0	22
84	Polar confinement of Saturn's magnetosphere revealed by in situ Cassini observations. Journal of Geophysical Research: Space Physics, 2014, 119, 2858-2875.	2.4	21
85	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.	2.4	20
86	Titan's plasma environment during a magnetosheath excursion: Real-time scenarios for Cassini's T32 flyby from a hybrid simulation. Annales Geophysicae, 2009, 27, 669-685.	1.6	18
87	Excitation of electron cyclotron harmonic waves in the inner Saturn magnetosphere within local plasma injections. Journal of Geophysical Research, 2010, 115, .	3.3	18
88	Asymmetries observed in Saturn's magnetopause geometry. Geophysical Research Letters, 2015, 42, 6890-6898.	4.0	18
89	Cassini observations of Saturn's southern polar cusp. Journal of Geophysical Research: Space Physics, 2016, 121, 3006-3030.	2.4	17
90	Cassini observations of ionospheric plasma in Saturn's magnetotail lobes. Journal of Geophysical Research: Space Physics, 2016, 121, 338-357.	2.4	16

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91	Local Time Asymmetries in Jupiter's Magnetodisc Currents. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027455.	2.4	16
92	Electromagnetic induction in the icy satellites of Uranus. Icarus, 2021, 367, 114562.	2.5	16
93	Reconnection Acceleration in Saturn's Dayside Magnetodisk: A Multicase Study with Cassini. Astrophysical Journal Letters, 2018, 868, L23.	8.3	15
94	Statistical ring current of Saturn. Journal of Geophysical Research, 2012, 117, n/a-n/a.	3.3	14
95	The Cassini Enceladus encounters 2005–2010 in the view of energetic electron measurements. Icarus, 2012, 218, 433-447.	2.5	14
96	Source region and growth analysis of narrowband <i>Z</i> àêmode emission at Saturn. Journal of Geophysical Research: Space Physics, 2016, 121, 11,929.	2.4	14
97	Recurrent Magnetic Dipolarization at Saturn: Revealed by Cassini. Journal of Geophysical Research: Space Physics, 2018, 123, 8502-8517.	2.4	14
98	Saturn's auroral/polar H ₃ ⁺ infrared emission: The effect of solar wind compression. Journal of Geophysical Research, 2012, 117, .	3.3	13
99	Photoelectrons in the Enceladus plume. Journal of Geophysical Research: Space Physics, 2013, 118, 5099-5108.	2.4	13
100	Sources of Local Time Asymmetries in Magnetodiscs. Space Science Reviews, 2015, 187, 301-333.	8.1	13
101	Modeling the compressibility of Saturn's magnetosphere in response to internal and external influences. Journal of Geophysical Research: Space Physics, 2017, 122, 1572-1589.	2.4	13
102	Ice giant system exploration in the 2020s: an introduction. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2020, 378, 20190473.	3.4	13
103	Electric field variability and classifications of Titan's magnetoplasma environment. Annales Geophysicae, 2011, 29, 1253-1258.	1.6	12
104	Cassini plasma observations of Saturn's magnetospheric cusp. Journal of Geophysical Research: Space Physics, 2016, 121, 12,047.	2.4	12
105	lce giant magnetospheres. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2020, 378, 20190480.	3.4	12
106	The Case for a New Frontiers–Class Uranus Orbiter: System Science at an Underexplored and Unique World with a Mid-scale Mission. Planetary Science Journal, 2022, 3, 58.	3.6	12
107	Global configuration of Saturn's magnetic field derived from observations. Geophysical Research Letters, 2010, 37, .	4.0	11
108	An indication of the existence of a solar wind strahl at 10 AU. Geophysical Research Letters, 2013, 40, 2495-2499.	4.0	10

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109	A combined model of pressure variations in Titan's plasma environment. Geophysical Research Letters, 2014, 41, 8730-8735.	4.0	10
110	Cassini observations of aperiodic waves on Saturn's magnetodisc. Journal of Geophysical Research: Space Physics, 2017, 122, 8063-8077.	2.4	9
111	An isolated, bright cusp aurora at Saturn. Journal of Geophysical Research: Space Physics, 2017, 122, 6121-6138.	2.4	9
112	Saturn's Openâ€Closed Field Line Boundary: A Cassini Electron Survey at Saturn's Magnetosphere. Journal of Geophysical Research: Space Physics, 2019, 124, 10018-10035.	2.4	9
113	Introducing the Voyage 2050 White Papers, contributions from the science community to ESA's long-term plan for the Scientific Programme. Experimental Astronomy, 2021, 51, 551-558.	3.7	8
114	The Role of Intense Upper Hybrid Resonance Emissions in the Generation of Saturn Narrowband Emission. Journal of Geophysical Research: Space Physics, 2019, 124, 5709-5718.	2.4	7
115	Diamagnetic depression observations at Saturn's magnetospheric cusp by the Cassini spacecraft. Journal of Geophysical Research: Space Physics, 2017, 122, 6283-6303.	2.4	6
116	Survey of Thermal Plasma Composition in Saturn's Magnetosphere Using Timeâ€ofâ€Flight Data From Cassini/CAPS. Journal of Geophysical Research: Space Physics, 2018, 123, 6494-6513.	2.4	6
117	Local Time Variation in the Largeâ€6cale Structure of Saturn's Magnetosphere. Journal of Geophysical Research: Space Physics, 2019, 124, 7425-7441.	2.4	6
118	Tracking Counterpart Signatures in Saturn's Auroras and ENA Imagery During Largeâ€Scale Plasma Injection Events. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027542.	2.4	6
119	The magnetospheres of Jupiter and Saturn and their lessons for the Earth. Advances in Space Research, 2008, 41, 1310-1318.	2.6	5
120	The Periodic Flapping and Breathing of Saturn's Magnetodisk During Equinox. Journal of Geophysical Research: Space Physics, 2018, 123, 8292-8316.	2.4	5
121	Mapping Saturn's Nightside Plasma Sheet Using Cassini's Proximal Orbits. Geophysical Research Letters, 2018, 45, 6798-6804.	4.0	4
122	Long-standing Small-scale Reconnection Processes at Saturn Revealed by Cassini. Astrophysical Journal Letters, 2019, 884, L14.	8.3	4
123	Current Density in Saturn's Equatorial Current Sheet: Cassini Magnetometer Observations. Journal of Geophysical Research: Space Physics, 2019, 124, 279-292.	2.4	4
124	Trapped Particle Motion in Magnetodisk Fields. Journal of Geophysical Research: Space Physics, 2020, 125, e2020JA027827.	2.4	4
125	Giant Planet Magnetodiscs and Aurorae—An Introduction. Space Science Reviews, 2015, 187, 1-3.	8.1	3
126	Future Missions to the Giant Planets that Can Advance Atmospheric Science Objectives. Space Science Reviews, 2020, 216, 1.	8.1	3

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127	Distribution and Properties of Magnetic Flux Ropes in Titan's Ionosphere. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027570.	2.4	3
128	The Statistical Morphology of Saturn's Equatorial Energetic Neutral Atom Emission. Geophysical Research Letters, 2021, 48, e2020GL091595.	4.0	3
129	Modeling Nonâ€Forceâ€Free and Deformed Flux Ropes in Titan's Ionosphere. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027571.	2.4	2
130	Sources of Local Time Asymmetries in Magnetodiscs. Space Sciences Series of ISSI, 2016, , 301-333.	0.0	2
131	AXIOM: Advanced Xâ€ray imaging of the magnetosheath. Astronomische Nachrichten, 2012, 333, 388-392.	1.2	1
132	Magnetotails throughout the solar system. Astronomy and Geophysics, 2010, 51, 6.28-6.30.	0.2	0
133	Large-Scale Structure in the Magnetospheres of Jupiter and Saturn. , 2011, , 343-358.		0
134	Correction to $\hat{a} \in \infty$ Cassini observations of ion and electron beams at Saturn and their relationship to infrared auroral arcs $\hat{a} \in \mathbb{R}$ Journal of Geophysical Research, 2012, 117, .	3.3	0
135	Cassini tracks Saturn's equatorial current sheet. Astronomy and Geophysics, 2017, 58, 1.17-1.20.	0.2	0
136	How does the Sun Influence the Magnetospheres of Jupiter and Saturn?. Proceedings of the International Astronomical Union, 2017, 13, 109-113.	0.0	0
137	Vertical Current Density Structure of Saturn's Equatorial Current Sheet. Journal of Geophysical Research: Space Physics, 2019, 124, 5097-5106.	2.4	0
138	Upstream of Saturn and Titan. Space Sciences Series of ISSI, 2011, , 25-83.	0.0	0