

Christopher Arridge

List of Publications by Year in descending order

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138
papers

5,261
citations

66343

42
h-index

106344

65
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143
all docs

143
docs citations

143
times ranked

1798
citing authors

#	ARTICLE	IF	CITATIONS
1	The Case for a New Frontiersâ€‘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
2	Introducing the Voyage 2050 White Papers, contributions from the science community to ESAâ€™s long-term plan for the Scientific Programme. Experimental Astronomy, 2021, 51, 551-558.	3.7	8
3	The Statistical Morphology of Saturnâ€™s Equatorial Energetic Neutral Atom Emission. Geophysical Research Letters, 2021, 48, e2020GL091595.	4.0	3
4	Electromagnetic induction in the icy satellites of Uranus. Icarus, 2021, 367, 114562.	2.5	16
5	Future Missions to the Giant Planets that Can Advance Atmospheric Science Objectives. Space Science Reviews, 2020, 216, 1.	8.1	3
6	Ice giant magnetospheres. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2020, 378, 20190480.	3.4	12
7	Distribution and Properties of Magnetic Flux Ropes in Titan's Ionosphere. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027570.	2.4	3
8	Trapped Particle Motion in Magnetodisk Fields. Journal of Geophysical Research: Space Physics, 2020, 125, e2020JA027827.	2.4	4
9	Modeling Nonâ€‘Forceâ€‘Free and Deformed Flux Ropes in Titan's Ionosphere. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027571.	2.4	2
10	Local Time Asymmetries in Jupiter's Magnetodisc Currents. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027455.	2.4	16
11	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
12	Ice giant system exploration in the 2020s: an introduction. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2020, 378, 20190473.	3.4	13
13	Local Time Variation in the Largeâ€‘Scale Structure of Saturn's Magnetosphere. Journal of Geophysical Research: Space Physics, 2019, 124, 7425-7441.	2.4	6
14	Long-standing Small-scale Reconnection Processes at Saturn Revealed by Cassini. Astrophysical Journal Letters, 2019, 884, L14.	8.3	4
15	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
16	Vertical Current Density Structure of Saturn's Equatorial Current Sheet. Journal of Geophysical Research: Space Physics, 2019, 124, 5097-5106.	2.4	0
17	Current Density in Saturn's Equatorial Current Sheet: Cassini Magnetometer Observations. Journal of Geophysical Research: Space Physics, 2019, 124, 279-292.	2.4	4
18	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

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19	Reconnection Acceleration in Saturn's Dayside Magnetodisk: A Multicase Study with Cassini. <i>Astrophysical Journal Letters</i> , 2018, 868, L23.	8.3	15
20	The Periodic Flapping and Breathing of Saturn's Magnetodisk During Equinox. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 8292-8316.	2.4	5
21	Recurrent Magnetic Dipolarization at Saturn: Revealed by Cassini. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 8502-8517.	2.4	14
22	Survey of Thermal Plasma Composition in Saturn's Magnetosphere Using Time-of-flight Data From Cassini/CAPS. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 6494-6513.	2.4	6
23	Mapping Saturn's Nightside Plasma Sheet Using Cassini's Proximal Orbits. <i>Geophysical Research Letters</i> , 2018, 45, 6798-6804.	4.0	4
24	Rotationally driven magnetic reconnection in Saturn's dayside. <i>Nature Astronomy</i> , 2018, 2, 640-645.	10.1	32
25	The evolution of solar wind strahl with heliospheric distance. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 3858-3874.	2.4	61
26	Cassini observations of aperiodic waves on Saturn's magnetodisc. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 8063-8077.	2.4	9
27	Diamagnetic depression observations at Saturn's magnetospheric cusp by the Cassini spacecraft. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 6283-6303.	2.4	6
28	An isolated, bright cusp aurora at Saturn. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 6121-6138.	2.4	9
29	Modeling the compressibility of Saturn's magnetosphere in response to internal and external influences. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 1572-1589.	2.4	13
30	Cassini tracks Saturn's equatorial current sheet. <i>Astronomy and Geophysics</i> , 2017, 58, 1.17-1.20.	0.2	0
31	How does the Sun Influence the Magnetospheres of Jupiter and Saturn?. <i>Proceedings of the International Astronomical Union</i> , 2017, 13, 109-113.	0.0	0
32	Flux transfer event observation at Saturn's dayside magnetopause by the Cassini spacecraft. <i>Geophysical Research Letters</i> , 2016, 43, 6713-6723.	4.0	38
33	Cassini plasma observations of Saturn's magnetospheric cusp. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 12,047.	2.4	12
34	Cassini observations of Saturn's southern polar cusp. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 3006-3030.	2.4	17
35	Cassini observations of ionospheric plasma in Saturn's magnetotail lobes. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 338-357.	2.4	16
36	Source region and growth analysis of narrowband Z -mode emission at Saturn. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 11,929.	2.4	14

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37	Cassini in situ observations of long-duration magnetic reconnection in Saturn's magnetotail. <i>Nature Physics</i> , 2016, 12, 268-271.	16.7	35
38	Sources of Local Time Asymmetries in Magnetodiscs. <i>Space Sciences Series of ISSI</i> , 2016, , 301-333.	0.0	2
39	Internally driven large-scale changes in the size of Saturn's magnetosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 7289-7306.	2.4	39
40	Asymmetries observed in Saturn's magnetopause geometry. <i>Geophysical Research Letters</i> , 2015, 42, 6890-6898.	4.0	18
41	Field dipolarization in Saturn's magnetotail with planetward ion flows and energetic particle flow bursts: Evidence of quasi-steady reconnection. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 3603-3617.	2.4	20
42	Solar Wind and Internally Driven Dynamics: Influences on Magnetodiscs and Auroral Responses. <i>Space Science Reviews</i> , 2015, 187, 51-97.	8.1	36
43	Analysis of a coronal mass ejection and corotating interaction region as they travel from the Sun passing Venus, Earth, Mars, and Saturn. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 1566-1588.	2.4	33
44	Giant Planet Magnetodiscs and Aurorae—An Introduction. <i>Space Science Reviews</i> , 2015, 187, 1-3.	8.1	3
45	Sources of Local Time Asymmetries in Magnetodiscs. <i>Space Science Reviews</i> , 2015, 187, 301-333.	8.1	13
46	The science case for an orbital mission to Uranus: Exploring the origins and evolution of ice giant planets. <i>Planetary and Space Science</i> , 2014, 104, 122-140.	1.7	56
47	Large-Scale Structure and Dynamics of the Magnetotails of Mercury, Earth, Jupiter and Saturn. <i>Space Science Reviews</i> , 2014, 182, 85-154.	8.1	41
48	Polar confinement of Saturn's magnetosphere revealed by in situ Cassini observations. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 2858-2875.	2.4	21
49	A combined model of pressure variations in Titan's plasma environment. <i>Geophysical Research Letters</i> , 2014, 41, 8730-8735.	4.0	10
50	Cassini multi-instrument assessment of Saturn's polar cap boundary. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 8161-8177.	2.4	31
51	Cusp observation at Saturn's high-latitude magnetosphere by the Cassini spacecraft. <i>Geophysical Research Letters</i> , 2014, 41, 1382-1388.	4.0	34
52	Comparative magnetotail flapping: an overview of selected events at Earth, Jupiter and Saturn. <i>Annales Geophysicae</i> , 2013, 31, 817-833.	1.6	32
53	Auroral signatures of multiple magnetopause reconnection at Saturn. <i>Geophysical Research Letters</i> , 2013, 40, 4498-4502.	4.0	50
54	An indication of the existence of a solar wind strahl at 10 AU. <i>Geophysical Research Letters</i> , 2013, 40, 2495-2499.	4.0	10

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55	Photoelectrons in the Enceladus plume. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 5099-5108.	2.4	13
56	The geometric factor of electrostatic plasma analyzers: A case study from the Fast Plasma Investigation for the Magnetospheric Multiscale mission. <i>Review of Scientific Instruments</i> , 2012, 83, 033303.	1.3	30
57	Dual periodicities in planetary-period magnetic field oscillations in Saturn's tail. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	70
58	Cassini observations of ionospheric photoelectrons at large distances from Titan: Implications for Titan's exospheric environment and magnetic tail. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	24
59	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
60	Reconnection at the magnetopause of Saturn: Perspective from FTE occurrence and magnetosphere size. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	50
61	Statistical ring current of Saturn. <i>Journal of Geophysical Research</i> , 2012, 117, n/a-n/a.	3.3	14
62	Saturn's inner magnetospheric convection pattern: Further evidence. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	60
63	Saturn's auroral/polar H ₃ ⁺ infrared emission: The effect of solar wind compression. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	13
64	Cassini in Titan's tail: CAPS observations of plasma escape. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	43
65	Correction to "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	0
66	AXIOM: Advanced X-ray imaging of the magnetosheath. <i>Astronomische Nachrichten</i> , 2012, 333, 388-392.	1.2	1
67	Uranus Pathfinder: exploring the origins and evolution of Ice Giant planets. <i>Experimental Astronomy</i> , 2012, 33, 753-791.	3.7	44
68	The Cassini Enceladus encounters 2005-2010 in the view of energetic electron measurements. <i>Icarus</i> , 2012, 218, 433-447.	2.5	14
69	Supercorotating return flow from reconnection in Saturn's magnetotail. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	4.0	24
70	Statistical properties of the magnetic field in the Kronian magnetotail lobes and current sheet. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	39
71	Outer magnetospheric structure: Jupiter and Saturn compared. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a.	3.3	30
72	Statistical characteristics of field-aligned currents in Saturn's nightside magnetosphere. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a.	3.3	35

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73	Dynamics and seasonal variations in Saturn's magnetospheric plasma sheet, as measured by Cassini. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a.	3.3	40
74	Saturn's ring current: Local time dependence and temporal variability. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	39
75	Auroral electron distributions within and close to the Saturn kilometric radiation source region. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	35
76	Periodic motion of Saturn's nightside plasma sheet. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a.	3.3	84
77	Large-Scale Structure in the Magnetospheres of Jupiter and Saturn. , 2011, , 343-358.		0
78	Solar Cycle Effects on the Dynamics of Jupiter's and Saturn's Magnetospheres. <i>Solar Physics</i> , 2011, 274, 481-502.	2.5	59
79	Upstream of Saturn and Titan. <i>Space Science Reviews</i> , 2011, 162, 25-83.	8.1	52
80	Mapping Magnetospheric Equatorial Regions at Saturn from Cassini Prime Mission Observations. <i>Space Science Reviews</i> , 2011, 164, 1-83.	8.1	40
81	Electric field variability and classifications of Titan's magnetoplasma environment. <i>Annales Geophysicae</i> , 2011, 29, 1253-1258.	1.6	12
82	Upstream of Saturn and Titan. <i>Space Sciences Series of ISSI</i> , 2011, , 25-83.	0.0	0
83	The calibration of the Cassini's Huygens CAPS Electron Spectrometer. <i>Planetary and Space Science</i> , 2010, 58, 427-436.	1.7	31
84	Magnetotails throughout the solar system. <i>Astronomy and Geophysics</i> , 2010, 51, 6.28-6.30.	0.2	0
85	A model of force balance in Saturn's magnetodisc. <i>Monthly Notices of the Royal Astronomical Society</i> , 2010, 401, 2349-2371.	4.4	73
86	Particle pressure, inertial force, and ring current density profiles in the magnetosphere of Saturn, based on Cassini measurements. <i>Geophysical Research Letters</i> , 2010, 37, .	4.0	57
87	A new form of Saturn's magnetopause using a dynamic pressure balance model, based on in situ, multi-instrument Cassini measurements. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	145
88	Magnetopause oscillations near the planetary period at Saturn: Occurrence, phase, and amplitude. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	48
89	Nature of the ring current in Saturn's dayside magnetosphere. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	27
90	Electron beams as the source of whistler-mode auroral hiss at Saturn. <i>Geophysical Research Letters</i> , 2010, 37, .	4.0	31

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91	Properties of Saturn kilometric radiation measured within its source region. <i>Geophysical Research Letters</i> , 2010, 37, .	4.0	74
92	Global configuration of Saturn's magnetic field derived from observations. <i>Geophysical Research Letters</i> , 2010, 37, .	4.0	11
93	CMI growth rates for Saturnian kilometric radiation. <i>Geophysical Research Letters</i> , 2010, 37, .	4.0	33
94	Influence of hot plasma pressure on the global structure of Saturn's magnetodisk. <i>Geophysical Research Letters</i> , 2010, 37, .	4.0	33
95	In situ observations of the effect of a solar wind compression on Saturn's magnetotail. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	33
96	Cassini observations of a Kelvin-Helmholtz vortex in Saturn's outer magnetosphere. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	100
97	Excitation of electron cyclotron harmonic waves in the inner Saturn magnetosphere within local plasma injections. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	18
98	Extraordinary field-aligned current signatures in Saturn's high-latitude magnetosphere: Analysis of Cassini data during Revolution 89. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	31
99	Titan's plasma environment during a magnetosheath excursion: Real-time scenarios for Cassini's T32 flyby from a hybrid simulation. <i>Annales Geophysicae</i> , 2009, 27, 669-685.	1.6	18
100	Electron optical study of the Venus Express ASPERA-4 Electron Spectrometer (ELS) top-hat electrostatic analyser. <i>Measurement Science and Technology</i> , 2009, 20, 055204.	2.6	30
101	Plasma in Saturn's nightside magnetosphere and the implications for global circulation. <i>Planetary and Space Science</i> , 2009, 57, 1714-1722.	1.7	85
102	The variability of Titan's magnetic environment. <i>Planetary and Space Science</i> , 2009, 57, 1813-1820.	1.7	56
103	Surface waves on Saturn's dawn flank magnetopause driven by the Kelvin-Helmholtz instability. <i>Planetary and Space Science</i> , 2009, 57, 1769-1778.	1.7	68
104	The effect of spacecraft radiation sources on electron moments from the Cassini CAPS electron spectrometer. <i>Planetary and Space Science</i> , 2009, 57, 854-869.	1.7	32
105	Plasma electrons in Saturn's magnetotail: Structure, distribution and energisation. <i>Planetary and Space Science</i> , 2009, 57, 2032-2047.	1.7	41
106	Fine jet structure of electrically charged grains in Enceladus' plume. <i>Geophysical Research Letters</i> , 2009, 36, .	4.0	86
107	Northward field excursions in Saturn's magnetotail and their relationship to magnetospheric periodicities. <i>Geophysical Research Letters</i> , 2009, 36, .	4.0	41
108	Signatures of field-aligned currents in Saturn's nightside magnetosphere. <i>Geophysical Research Letters</i> , 2009, 36, .	4.0	37

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109	Hot flow anomalies at Saturn's bow shock. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	32
110	Sources of rotational signals in Saturn's magnetosphere. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	74
111	Polarization and phase of planetaryâ€period magnetic field oscillations on highâ€latitude field lines in Saturn's magnetosphere. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	83
112	Characterization of auroral current systems in Saturn's magnetosphere: Highâ€latitude Cassini observations. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	44
113	Saturn's Magnetospheric Configuration. , 2009, , 203-255.		44
114	Derivation of density and temperature from the Cassiniâ€Huygens CAPS electron spectrometer. <i>Planetary and Space Science</i> , 2008, 56, 901-912.	1.7	81
115	The magnetospheres of Jupiter and Saturn and their lessons for the Earth. <i>Advances in Space Research</i> , 2008, 41, 1310-1318.	2.6	5
116	Complex structure within Saturnâ€™s infrared aurora. <i>Nature</i> , 2008, 456, 214-217.	27.8	42
117	Cassini encounters with hot flow anomalyâ€like phenomena at Saturn's bow shock. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	22
118	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
119	Saturn's magnetodisc current sheet. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	89
120	Warping of Saturn's magnetospheric and magnetotail current sheets. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	148
121	Identification of Saturn's magnetospheric regions and associated plasma processes: Synopsis of Cassini observations during orbit insertion. <i>Reviews of Geophysics</i> , 2008, 46, .	23.0	23
122	Thermal electron periodicities at 20<i>R</i>_{<i>S</i>} in Saturn's magnetosphere. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	41
123	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
124	Largeâ€scale dynamics of Saturn's magnetopause: Observations by Cassini. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	86
125	A multiâ€instrument view of tail reconnection at Saturn. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	48
126	An empirical model of Saturn's bow shock: Cassini observations of shock location and shape. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	51

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127	Auroral current systems in Saturn's magnetosphere: comparison of theoretical models with Cassini and HST observations. <i>Annales Geophysicae</i> , 2008, 26, 2613-2630.	1.6	60
128	Mass of Saturn's magnetodisc: Cassini observations. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	57
129	Strong rapid dipolarizations in Saturn's magnetotail: In situ evidence of reconnection. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	93
130	Ionospheric electrons in Titan's tail: Plasma structure during the Cassini T9 encounter. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	103
131	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
132	Orientation, location, and velocity of Saturn's bow shock: Initial results from the Cassini spacecraft. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	50
133	Modeling the size and shape of Saturn's magnetopause with variable dynamic pressure. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	133
134	Formation of Saturn's ring spokes by lightning-induced electron beams. <i>Geophysical Research Letters</i> , 2006, 33, .	4.0	32
135	Titan's near magnetotail from magnetic field and electron plasma observations and modeling: Cassini flybys TA, TB, and T3. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	82
136	Nature of magnetic fluctuations in Saturn's middle magnetosphere. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	47
137	Cassini Magnetometer Observations During Saturn Orbit Insertion. <i>Science</i> , 2005, 307, 1266-1270.	12.6	211
138	Titan's Magnetic Field Signature During the First Cassini Encounter. <i>Science</i> , 2005, 308, 992-995.	12.6	133