

Christopher Arridge

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

139
papers

4,789
citations

41
h-index

62
g-index

143
ext. papers

5,008
ext. citations

4.7
avg, IF

5.02
L-index

#	Paper	IF	Citations
139	The Case for a New Frontiers-Class Uranus Orbiter: System Science at an Underexplored and Unique World with a Mid-scale Mission. <i>Planetary Science Journal</i> , 2022 , 3, 58	2.9	1
138	Asymmetrical Magnetospheres. <i>Geophysical Monograph Series</i> , 2021 , 515-534	1.1	2
137	The Statistical Morphology of Saturn's Equatorial Energetic Neutral Atom Emission. <i>Geophysical Research Letters</i> , 2021 , 48, e2020GL091595	4.9	2
136	Electromagnetic induction in the icy satellites of Uranus. <i>Icarus</i> , 2021 , 367, 114562	3.8	5
135	Ice giant magnetospheres. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2020 , 378, 20190480	3	9
134	Distribution and Properties of Magnetic Flux Ropes in Titan's Ionosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2020 , 125, e2019JA027570	2.6	3
133	Trapped Particle Motion in Magnetodisk Fields. <i>Journal of Geophysical Research: Space Physics</i> , 2020 , 125, e2020JA027827	2.6	1
132	Modeling Non-Force-Free and Deformed Flux Ropes in Titan's Ionosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2020 , 125, e2019JA027571	2.6	1
131	Local Time Asymmetries in Jupiter's Magnetodisc Currents. <i>Journal of Geophysical Research: Space Physics</i> , 2020 , 125, e2019JA027455	2.6	6
130	Tracking Counterpart Signatures in Saturn's Auroras and ENA Imagery During Large-Scale Plasma Injection Events. <i>Journal of Geophysical Research: Space Physics</i> , 2020 , 125, e2019JA027542	2.6	4
129	Ice giant system exploration in the 2020s: an introduction. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2020 , 378, 20190473	3	7
128	Future Missions to the Giant Planets that Can Advance Atmospheric Science Objectives. <i>Space Science Reviews</i> , 2020 , 216, 1	7.5	1
127	Long-standing Small-scale Reconnection Processes at Saturn Revealed by Cassini. <i>Astrophysical Journal Letters</i> , 2019 , 884, L14	7.9	4
126	The Role of Intense Upper Hybrid Resonance Emissions in the Generation of Saturn Narrowband Emission. <i>Journal of Geophysical Research: Space Physics</i> , 2019 , 124, 5709-5718	2.6	4
125	Vertical Current Density Structure of Saturn's Equatorial Current Sheet. <i>Journal of Geophysical Research: Space Physics</i> , 2019 , 124, 5097-5106	2.6	
124	Current Density in Saturn's Equatorial Current Sheet: Cassini Magnetometer Observations. <i>Journal of Geophysical Research: Space Physics</i> , 2019 , 124, 279-292	2.6	3
123	Local Time Variation in the Large-Scale Structure of Saturn's Magnetosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2019 , 124, 7425-7441	2.6	4

122	Saturn's Open-Closed Field Line Boundary: A Cassini Electron Survey at Saturn's Magnetosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2019 , 124, 10018-10035	2.6	8
121	Current Sheets at the Giant Planets. <i>Geophysical Monograph Series</i> , 2018 , 191-205	1.1	2
120	Rotationally driven magnetic reconnection in Saturn's dayside. <i>Nature Astronomy</i> , 2018 , 2, 640-645	12.1	24
119	Reconnection Acceleration in Saturn's Dayside Magnetodisk: A Multicase Study with Cassini. <i>Astrophysical Journal Letters</i> , 2018 , 868, L23	7.9	12
118	The Periodic Flapping and Breathing of Saturn's Magnetodisk During Equinox. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 8292-8316	2.6	5
117	Recurrent Magnetic Dipolarization at Saturn: Revealed by Cassini. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 8502-8517	2.6	11
116	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	2.6	5
115	Mapping Saturn's Nightside Plasma Sheet Using Cassini's Proximal Orbits. <i>Geophysical Research Letters</i> , 2018 , 45, 6798-6804	4.9	4
114	The evolution of solar wind strahl with heliospheric distance. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 3858-3874	2.6	49
113	Cassini observations of aperiodic waves on Saturn's magnetodisc. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 8063-8077	2.6	8
112	Diamagnetic depression observations at Saturn's magnetospheric cusp by the Cassini spacecraft. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 6283-6303	2.6	4
111	An isolated, bright cusp aurora at Saturn. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 6121-6138	2.6	9
110	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	2.6	12
109	Cassini tracks Saturn's equatorial current sheet. <i>Astronomy and Geophysics</i> , 2017 , 58, 1.17-1.20	0.2	
108	How does the Sun Influence the Magnetospheres of Jupiter and Saturn?. <i>Proceedings of the International Astronomical Union</i> , 2017 , 13, 109-113	0.1	
107	Source region and growth analysis of narrowband Z-mode emission at Saturn. <i>Journal of Geophysical Research: Space Physics</i> , 2016 , 121, 11,929	2.6	8
106	Cassini in situ observations of long-duration magnetic reconnection in Saturn's magnetotail. <i>Nature Physics</i> , 2016 , 12, 268-271	16.2	31
105	Sources of Local Time Asymmetries in Magnetodisks. <i>Space Sciences Series of ISSI</i> , 2016 , 301-333	0.1	0

104	Flux transfer event observation at Saturn's dayside magnetopause by the Cassini spacecraft. <i>Geophysical Research Letters</i> , 2016 , 43, 6713-6723	4.9	31
103	Cassini plasma observations of Saturn's magnetospheric cusp. <i>Journal of Geophysical Research: Space Physics</i> , 2016 , 121, 12,047-12,067	2.6	8
102	Cassini observations of Saturn's southern polar cusp. <i>Journal of Geophysical Research: Space Physics</i> , 2016 , 121, 3006-3030	2.6	12
101	Cassini observations of ionospheric plasma in Saturn's magnetotail lobes. <i>Journal of Geophysical Research: Space Physics</i> , 2016 , 121, 338-357	2.6	16
100	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	2.6	28
99	Giant Planet Magnetodiscs and Aurorae: An Introduction. <i>Space Science Reviews</i> , 2015 , 187, 1-3	7.5	2
98	Sources of Local Time Asymmetries in Magnetodiscs. <i>Space Science Reviews</i> , 2015 , 187, 301-333	7.5	13
97	Internally driven large-scale changes in the size of Saturn's magnetosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2015 , 120, 7289-7306	2.6	36
96	Magnetotails of Uranus and Neptune. <i>Geophysical Monograph Series</i> , 2015 , 119-133	1.1	7
95	Asymmetries observed in Saturn's magnetopause geometry. <i>Geophysical Research Letters</i> , 2015 , 42, 6890-6898	4.9	14
94	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	2.6	19
93	Solar Wind and Internally Driven Dynamics: Influences on Magnetodiscs and Auroral Responses. <i>Space Science Reviews</i> , 2015 , 187, 51-97	7.5	35
92	Large-Scale Structure and Dynamics of the Magnetotails of Mercury, Earth, Jupiter and Saturn. <i>Space Science Reviews</i> , 2014 , 182, 85-154	7.5	36
91	Polar confinement of Saturn's magnetosphere revealed by in situ Cassini observations. <i>Journal of Geophysical Research: Space Physics</i> , 2014 , 119, 2858-2875	2.6	21
90	A combined model of pressure variations in Titan's plasma environment. <i>Geophysical Research Letters</i> , 2014 , 41, 8730-8735	4.9	10
89	Cassini multi-instrument assessment of Saturn's polar cap boundary. <i>Journal of Geophysical Research: Space Physics</i> , 2014 , 119, 8161-8177	2.6	30
88	Cusp observation at Saturn's high-latitude magnetosphere by the Cassini spacecraft. <i>Geophysical Research Letters</i> , 2014 , 41, 1382-1388	4.9	31
87	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	2	41

86	Comparative magnetotail flapping: an overview of selected events at Earth, Jupiter and Saturn. <i>Annales Geophysicae</i> , 2013 , 31, 817-833	2	28
85	Auroral signatures of multiple magnetopause reconnection at Saturn. <i>Geophysical Research Letters</i> , 2013 , 40, 4498-4502	4.9	48
84	An indication of the existence of a solar wind strahl at 10 AU. <i>Geophysical Research Letters</i> , 2013 , 40, 2495-2499	4.9	10
83	Photoelectrons in the Enceladus plume. <i>Journal of Geophysical Research: Space Physics</i> , 2013 , 118, 5099-5108	5.1	12
82	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	1.7	27
81	Dual periodicities in planetary-period magnetic field oscillations in Saturn's tail. <i>Journal of Geophysical Research</i> , 2012 , 117,		67
80	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, n/a-n/a		21
79	Cassini observations of ion and electron beams at Saturn and their relationship to infrared auroral arcs. <i>Journal of Geophysical Research</i> , 2012 , 117,		44
78	Reconnection at the magnetopause of Saturn: Perspective from FTE occurrence and magnetosphere size. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		48
77	Statistical ring current of Saturn. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		12
76	Saturn's inner magnetospheric convection pattern: Further evidence. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		56
75	Saturn's auroral/polar H3+ infrared emission: The effect of solar wind compression. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		13
74	Cassini in Titan's tail: CAPS observations of plasma escape. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		39
73	AXIOM: Advanced X-ray imaging of the magnetosheath. <i>Astronomische Nachrichten</i> , 2012 , 333, 388-392	0.7	1
72	Uranus Pathfinder: exploring the origins and evolution of Ice Giant planets. <i>Experimental Astronomy</i> , 2012 , 33, 753-791	1.3	36
71	The Cassini Enceladus encounters 2005-2010 in the view of energetic electron measurements. <i>Icarus</i> , 2012 , 218, 433-447	3.8	13
70	Superrotating return flow from reconnection in Saturn's magnetotail. <i>Geophysical Research Letters</i> , 2011 , 38, n/a-n/a	4.9	22
69	Statistical properties of the magnetic field in the Kronian magnetotail lobes and current sheet. <i>Journal of Geophysical Research</i> , 2011 , 116,		35

68	Outer magnetospheric structure: Jupiter and Saturn compared. <i>Journal of Geophysical Research</i> , 2011 , 116, n/a-n/a		27
67	Statistical characteristics of field-aligned currents in Saturn's nightside magnetosphere. <i>Journal of Geophysical Research</i> , 2011 , 116, n/a-n/a		34
66	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		38
65	Saturn's ring current: Local time dependence and temporal variability. <i>Journal of Geophysical Research</i> , 2011 , 116,		36
64	Auroral electron distributions within and close to the Saturn kilometric radiation source region. <i>Journal of Geophysical Research</i> , 2011 , 116,		28
63	Periodic motion of Saturn's nightside plasma sheet. <i>Journal of Geophysical Research</i> , 2011 , 116, n/a-n/a		82
62	Large-Scale Structure in the Magnetospheres of Jupiter and Saturn 2011 , 343-358		
61	Solar Cycle Effects on the Dynamics of Jupiter's and Saturn's Magnetospheres. <i>Solar Physics</i> , 2011 , 274, 481-502	2.6	50
60	Upstream of Saturn and Titan. <i>Space Science Reviews</i> , 2011 , 162, 25-83	7.5	47
59	Mapping Magnetospheric Equatorial Regions at Saturn from Cassini Prime Mission Observations. <i>Space Science Reviews</i> , 2011 , 164, 1-83	7.5	39
58	Electric field variability and classifications of Titan's magnetoplasma environment. <i>Annales Geophysicae</i> , 2011 , 29, 1253-1258	2	11
57	Upstream of Saturn and Titan. <i>Space Sciences Series of ISSI</i> , 2011 , 25-83	0.1	
56	Magnetotails throughout the solar system. <i>Astronomy and Geophysics</i> , 2010 , 51, 6.28-6.30	0.2	
55	A model of force balance in Saturn's magnetodisc. <i>Monthly Notices of the Royal Astronomical Society</i> , 2010 , 401, 2349-2371	4.3	67
54	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, n/a-n/a	4.9	54
53	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, n/a-n/a		134
52	Magnetopause oscillations near the planetary period at Saturn: Occurrence, phase, and amplitude. <i>Journal of Geophysical Research</i> , 2010 , 115, n/a-n/a		48
51	Nature of the ring current in Saturn's dayside magnetosphere. <i>Journal of Geophysical Research</i> , 2010 , 115, n/a-n/a		27

50	Electron beams as the source of whistler-mode auroral hiss at Saturn. <i>Geophysical Research Letters</i> , 2010 , 37, n/a-n/a	4.9	29
49	Properties of Saturn kilometric radiation measured within its source region. <i>Geophysical Research Letters</i> , 2010 , 37, n/a-n/a	4.9	64
48	Global configuration of Saturn's magnetic field derived from observations. <i>Geophysical Research Letters</i> , 2010 , 37, n/a-n/a	4.9	10
47	CMI growth rates for Saturnian kilometric radiation. <i>Geophysical Research Letters</i> , 2010 , 37, n/a-n/a	4.9	26
46	Influence of hot plasma pressure on the global structure of Saturn's magnetodisk. <i>Geophysical Research Letters</i> , 2010 , 37, n/a-n/a	4.9	31
45	In situ observations of the effect of a solar wind compression on Saturn's magnetotail. <i>Journal of Geophysical Research</i> , 2010 , 115, n/a-n/a		26
44	Cassini observations of a Kelvin-Helmholtz vortex in Saturn's outer magnetosphere. <i>Journal of Geophysical Research</i> , 2010 , 115,		91
43	Excitation of electron cyclotron harmonic waves in the inner Saturn magnetosphere within local plasma injections. <i>Journal of Geophysical Research</i> , 2010 , 115, n/a-n/a		14
42	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, n/a-n/a		29
41	The calibration of the Cassini's Huygens CAPS Electron Spectrometer. <i>Planetary and Space Science</i> , 2010 , 58, 427-436	2	30
40	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	2	16
39	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	25
38	Plasma in Saturn's nightside magnetosphere and the implications for global circulation. <i>Planetary and Space Science</i> , 2009 , 57, 1714-1722	2	82
37	The variability of Titan's magnetic environment. <i>Planetary and Space Science</i> , 2009 , 57, 1813-1820	2	53
36	Surface waves on Saturn's dawn flank magnetopause driven by the Kelvin-Helmholtz instability. <i>Planetary and Space Science</i> , 2009 , 57, 1769-1778	2	65
35	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	2	32
34	Plasma electrons in Saturn's magnetotail: Structure, distribution and energisation. <i>Planetary and Space Science</i> , 2009 , 57, 2032-2047	2	38
33	Fine jet structure of electrically charged grains in Enceladus' plume. <i>Geophysical Research Letters</i> , 2009 , 36,	4.9	79

32	Northward field excursions in Saturn's magnetotail and their relationship to magnetospheric periodicities. <i>Geophysical Research Letters</i> , 2009 , 36,	4.9	40
31	Signatures of field-aligned currents in Saturn's nightside magnetosphere. <i>Geophysical Research Letters</i> , 2009 , 36,	4.9	36
30	Hot flow anomalies at Saturn's bow shock. <i>Journal of Geophysical Research</i> , 2009 , 114, n/a-n/a		28
29	Sources of rotational signals in Saturn's magnetosphere. <i>Journal of Geophysical Research</i> , 2009 , 114, n/a-n/a		70
28	Polarization and phase of planetary-period magnetic field oscillations on high-latitude field lines in Saturn's magnetosphere. <i>Journal of Geophysical Research</i> , 2009 , 114, n/a-n/a		82
27	Characterization of auroral current systems in Saturn's magnetosphere: High-latitude Cassini observations. <i>Journal of Geophysical Research</i> , 2009 , 114, n/a-n/a		42
26	Saturn's Magnetospheric Configuration 2009 , 203-255		40
25	Complex structure within Saturn's infrared aurora. <i>Nature</i> , 2008 , 456, 214-7	50.4	40
24	Cassini encounters with hot flow anomaly-like phenomena at Saturn's bow shock. <i>Geophysical Research Letters</i> , 2008 , 35,	4.9	18
23	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, n/a-n/a		53
22	Saturn's magnetodisc current sheet. <i>Journal of Geophysical Research</i> , 2008 , 113, n/a-n/a		86
21	Warping of Saturn's magnetospheric and magnetotail current sheets. <i>Journal of Geophysical Research</i> , 2008 , 113, n/a-n/a		132
20	Identification of Saturn's magnetospheric regions and associated plasma processes: Synopsis of Cassini observations during orbit insertion. <i>Reviews of Geophysics</i> , 2008 , 46,	23.1	22
19	Thermal electron periodicities at 20RS in Saturn's magnetosphere. <i>Geophysical Research Letters</i> , 2008 , 35,	4.9	40
18	Origin of Saturn's aurora: Simultaneous observations by Cassini and the Hubble Space Telescope. <i>Journal of Geophysical Research</i> , 2008 , 113, n/a-n/a		117
17	Large-scale dynamics of Saturn's magnetopause: Observations by Cassini. <i>Journal of Geophysical Research</i> , 2008 , 113, n/a-n/a		83
16	A multi-instrument view of tail reconnection at Saturn. <i>Journal of Geophysical Research</i> , 2008 , 113, n/a-n/a		47
15	An empirical model of Saturn's bow shock: Cassini observations of shock location and shape. <i>Journal of Geophysical Research</i> , 2008 , 113,		44

14	Auroral current systems in Saturn's magnetosphere: comparison of theoretical models with Cassini and HST observations. <i>Annales Geophysicae</i> , 2008 , 26, 2613-2630	2	57
13	Derivation of density and temperature from the Cassini-Huygens CAPS electron spectrometer. <i>Planetary and Space Science</i> , 2008 , 56, 901-912	2	79
12	The magnetospheres of Jupiter and Saturn and their lessons for the Earth. <i>Advances in Space Research</i> , 2008 , 41, 1310-1318	2.4	4
11	Mass of Saturn's magnetodisc: Cassini observations. <i>Geophysical Research Letters</i> , 2007 , 34,	4.9	55
10	Strong rapid dipolarizations in Saturn's magnetotail: In situ evidence of reconnection. <i>Geophysical Research Letters</i> , 2007 , 34,	4.9	91
9	Ionospheric electrons in Titan's tail: Plasma structure during the Cassini T9 encounter. <i>Geophysical Research Letters</i> , 2007 , 34,	4.9	96
8	Cassini observations of the variation of Saturn's ring current parameters with system size. <i>Journal of Geophysical Research</i> , 2007 , 112, n/a-n/a		104
7	Orientation, location, and velocity of Saturn's bow shock: Initial results from the Cassini spacecraft. <i>Journal of Geophysical Research</i> , 2006 , 111,		46
6	Modeling the size and shape of Saturn's magnetopause with variable dynamic pressure. <i>Journal of Geophysical Research</i> , 2006 , 111,		126
5	Formation of Saturn's ring spokes by lightning-induced electron beams. <i>Geophysical Research Letters</i> , 2006 , 33,	4.9	25
4	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,		77
3	Nature of magnetic fluctuations in Saturn's middle magnetosphere. <i>Journal of Geophysical Research</i> , 2006 , 111,		44
2	Cassini magnetometer observations during Saturn orbit insertion. <i>Science</i> , 2005 , 307, 1266-70	33.3	196
1	Titan's magnetic field signature during the first Cassini encounter. <i>Science</i> , 2005 , 308, 992-5	33.3	130