

# Colin L Waters

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8196688/publications.pdf>

Version: 2024-02-01

102  
papers

3,462  
citations

126708

33  
h-index

161609

54  
g-index

121  
all docs

121  
docs citations

121  
times ranked

1782  
citing authors

#	ARTICLE	IF	CITATIONS
1	Ponderomotive force driven density modifications parallel to B <sub>0</sub> on the LAPD. <i>Physics of Plasmas</i> , 2022, 29, 042508.	0.7	5
2	On the Estimation of Resonance Widths of Field Line Resonances Using Ground Magnetometer Data. <i>Frontiers in Astronomy and Space Sciences</i> , 2022, 9, .	1.1	0
3	On the Estimation of the Ratio of ULF Wave Electric Fields in Space and the Magnetic Fields at the Ground. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA029052.	0.8	1
4	Field-Aligned and Ionospheric Currents by AMPERE and SuperMAG During HSS/SIR-Driven Storms. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2021JA029437.	0.8	5
5	Field-Aligned Current During an Interval of B <sub>Y</sub> -Dominated Interplanetary Field; Modeled-to-Observed Comparisons. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, .	0.8	0
6	A 1D coupled transport/cold plasma wave model for parallel ponderomotive density modification near RF actuators. <i>AIP Conference Proceedings</i> , 2020, , .	0.3	0
7	Numerical Investigations of Interhemispheric Asymmetry due to Ionospheric Conductance. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2020JA027866.	0.8	7
8	Science Data Products for AMPERE. , 2020, , 141-165.		28
9	Deriving Global Convection Maps From SuperDARN Measurements. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 2902-2915.	0.8	13
10	Statistical Correlation Analysis of Field-Aligned Currents Measured by Swarm. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 8170-8184.	0.8	6
11	Temporal and Spatial Development of Global Birkeland Currents. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 4785-4808.	0.8	22
12	A comparison of small-scale magnetic fluctuations in the Region 1 and 2 field-aligned current systems. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 3277-3290.	0.8	5
13	Comparison of predictive estimates of high-latitude electrodynamics with observations of global-scale Birkeland currents. <i>Space Weather</i> , 2017, 15, 352-373.	1.3	35
14	Energization of outer radiation belt electrons during storm recovery phase. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 10,845.	0.8	8
15	Electrodynamic context of magnetopause dynamics observed by magnetospheric multiscale. <i>Geophysical Research Letters</i> , 2016, 43, 5988-5996.	1.5	10
16	SuperDARN backscatter during intense geomagnetic storms. <i>Radio Science</i> , 2016, 51, 814-825.	0.8	6
17	Monitoring Magnetospheric Waves from the Ground. , 2016, , 170-191.		1
18	Global maps of ground magnetometer data. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 9651-9660.	0.8	23

#	ARTICLE	IF	CITATIONS
19	Multifrequency compressional magnetic field oscillations and their relation to multiharmonic toroidal mode standing Alfvén waves. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 10,384.	0.8	9
20	Waves in the sky: Probing the ionosphere with the Murchison Widefield Array. , 2015, , .		0
21	Real-time imaging of density ducts between the plasmasphere and ionosphere. <i>Geophysical Research Letters</i> , 2015, 42, 3707-3714.	1.5	61
22	Survey of ULF wave signatures seen in the Tasman International Geospace Environment Radars data. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 949-963.	0.8	13
23	Resonance structure and mode transition of quarter-wave ULF pulsations around the dawn terminator. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 4194-4212.	0.8	21
24	Propagation of Pi2 pulsations in a dipole model of the magnetosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 355-367.	0.8	30
25	Effect of the ionosphere on the interaction between ULF waves and radiation belt electrons. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 8572-8585.	0.8	6
26	A finite difference construction of the spheroidal wave functions. <i>Computer Physics Communications</i> , 2014, 185, 244-253.	3.0	13
27	On the use of geomagnetic indices and ULF waves for earthquake precursor signatures. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 992-1003.	0.8	29
28	Development of large-scale Birkeland currents determined from the Active Magnetosphere and Planetary Electrodynamics Response Experiment. <i>Geophysical Research Letters</i> , 2014, 41, 3017-3025.	1.5	156
29	Statistical relationship between large-scale upward field-aligned currents and electron precipitation. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 6715-6731.	0.8	58
30	Remote sensing the plasmasphere, plasmopause, plumes and other features using ground-based magnetometers. <i>Journal of Space Weather and Space Climate</i> , 2014, 4, A34.	1.1	22
31	The importance of non-uniform geoelectric fields in calculating GIC distributions. , 2013, , .		5
32	Transition of Pi2 ULF wave polarization structure from the ionosphere to the ground. <i>Geophysical Research Letters</i> , 2013, 40, 1474-1478.	1.5	7
33	On the coupling of fast and shear Alfvén wave modes by the ionospheric Hall conductance. <i>Earth, Planets and Space</i> , 2013, 65, 385-396.	0.9	19
34	Modeling of the ionospheric Alfvén resonator in dipolar geometry. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 1514-1528.	0.8	42
35	Observations of geomagnetically induced currents in the Australian power network. <i>Space Weather</i> , 2013, 11, 6-16.	1.3	47
36	The detailed spatial structure of field-aligned currents comprising the substorm current wedge. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 7714-7727.	0.8	63

#	ARTICLE	IF	CITATIONS
37	Ground Measurements of Low Latitude Magnetospheric Field Line Resonances. Geophysical Monograph Series, 2013, , 299-310.	0.1	19
38	Reduction in field-aligned currents preceding and local to auroral substorm onset. Geophysical Research Letters, 2012, 39, .	1.5	24
39	The 8 June 2000 ULF wave activity: A case study. Journal of Geophysical Research, 2012, 117, .	3.3	20
40	Geomagnetically induced currents in the New Zealand power network. Space Weather, 2012, 10, .	1.3	103
41	Relationship between ULF wave mode mix, equatorial electric fields, and ground magnetometer data. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	8
42	A preliminary risk assessment of the Australian region power network to space weather. Space Weather, 2011, 9, .	1.3	58
43	Statistical analysis of the dependence of large-scale Birkeland currents on solar wind parameters. Annales Geophysicae, 2010, 28, 515-530.	0.6	45
44	FDTD modeling of ULF waves in the magnetosphere and ionosphere. , 2010, , .		1
45	Observations and modelling of the wave mode evolution of an impulse-driven 3 mHz ULF wave. Annales Geophysicae, 2010, 28, 1723-1735.	0.6	0
46	Spectral analysis of pipe-to-soil potentials with variations of the Earth's magnetic field in the Australian region. Space Weather, 2010, 8, n/a-n/a.	1.3	36
47	Upstream Pc3 waves: Experimental evidence of propagation to the nightside plasmopause/plasmatrough. Geophysical Research Letters, 2010, 37, .	1.5	11
48	Relativistic electron loss due to ultralow frequency waves and enhanced outward radial diffusion. Journal of Geophysical Research, 2010, 115, .	3.3	83
49	The modulation of electromagnetic ion cyclotron waves by Pc 5 ULF waves. Annales Geophysicae, 2009, 27, 121-130.	0.6	37
50	Refractive index effects on the scatter volume location and Doppler velocity estimates of ionospheric HF backscatter echoes. Annales Geophysicae, 2009, 27, 4207-4219.	0.6	50
51	Seasonal and interplanetary magnetic field dependence of the field-aligned currents for both Northern and Southern Hemispheres. Annales Geophysicae, 2009, 27, 1701-1715.	0.6	60
52	Plasmaspheric dynamics resulting from the Hallowe'en 2003 geomagnetic storms. Journal of Geophysical Research, 2009, 114, .	3.3	22
53	ULF wave effects on high frequency signal propagation through the ionosphere. Annales Geophysicae, 2009, 27, 2779-2788.	0.6	11
54	Field line resonant frequencies and ionospheric conductance: Results from a 2D MHD model. Journal of Geophysical Research, 2008, 113, .	3.3	26

#	ARTICLE	IF	CITATIONS
55	Quarter-wave modes of standing Alfvén waves detected by cross-phase analysis. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	30
56	Phase coherence analysis of a field line resonance and solar wind oscillation. <i>Geophysical Research Letters</i> , 2008, 35, .	1.5	19
57	Effects of mixed scatter on SuperDARN convection maps. <i>Annales Geophysicae</i> , 2008, 26, 1517-1523.	0.6	19
58	Global observations of electromagnetic and particle energy flux for an event during northern winter with southward interplanetary magnetic field. <i>Annales Geophysicae</i> , 2008, 26, 1415-1430.	0.6	11
59	Statistical Birkeland current distributions from magnetic field observations by the Iridium constellation. <i>Annales Geophysicae</i> , 2008, 26, 671-687.	0.6	132
60	Technique: Large-scale ionospheric conductance estimated from combined satellite and ground-based electromagnetic data. <i>Journal of Geophysical Research</i> , 2007, 112, n/a-n/a.	3.3	21
61	ULF Doppler oscillations in the low latitude ionosphere. <i>Geophysical Research Letters</i> , 2007, 34, .	1.5	10
62	Observations of Pi2 pulsations by the Wallops HF radar in association with substorm expansion. <i>Geophysical Research Letters</i> , 2007, 34, .	1.5	15
63	Ground magnetometer observation of a cross-phase reversal at a steep plasmopause. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	23
64	Factors determining spectral width of HF echoes from high latitudes. <i>Annales Geophysicae</i> , 2007, 25, 675-687.	0.6	23
65	An auroral westward flow channel (AWFC) and its relationship to field-aligned current, ring current, and plasmopause location determined using multiple spacecraft observations. <i>Annales Geophysicae</i> , 2007, 25, 59-76.	0.6	3
66	Modulation of radio frequency signals by ULF waves. <i>Annales Geophysicae</i> , 2007, 25, 1113-1124.	0.6	12
67	Ionospheric signatures of ULF waves: Passive radar techniques. <i>Geophysical Monograph Series</i> , 2006, , 259-271.	0.1	7
68	Remote sensing the magnetosphere using ground-based observations of ULF waves. <i>Geophysical Monograph Series</i> , 2006, , 319-340.	0.1	15
69	Spectral width of SuperDARN echoes: measurement, use and physical interpretation. <i>Annales Geophysicae</i> , 2006, 24, 115-128.	0.6	47
70	Comparison of large-scale Birkeland currents determined from Iridium and SuperDARN data. <i>Annales Geophysicae</i> , 2006, 24, 941-959.	0.6	27
71	High-latitude electromagnetic and particle energy flux during an event with sustained strongly northward IMF. <i>Annales Geophysicae</i> , 2005, 23, 1295-1310.	0.6	31
72	Pc3-4 ULF waves observed by the SuperDARN TIGER radar. <i>Annales Geophysicae</i> , 2005, 23, 1271-1280.	0.6	26

#	ARTICLE	IF	CITATIONS
73	A numerical model to investigate the polarisation azimuth of ULF waves through an ionosphere with oblique magnetic fields. <i>Annales Geophysicae</i> , 2005, 23, 3457-3471.	0.6	32
74	Propagation of electromagnetic ion cyclotron wave energy in the magnetosphere. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	145
75	Revised time-of-flight calculations for high-latitude geomagnetic pulsations using a realistic magnetospheric magnetic field model. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	21
76	High-latitude poynting flux from combined Iridium and SuperDARN data. <i>Annales Geophysicae</i> , 2004, 22, 2861-2875.	0.6	34
77	Propagation of ULF waves through the ionosphere: Inductive effect for oblique magnetic fields. <i>Annales Geophysicae</i> , 2004, 22, 1155-1169.	0.6	40
78	Monitoring the plasmopause using geomagnetic field line resonances. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	44
79	The role of Pc1-2 waves in spectral broadening of SuperDARN echoes from high latitudes. <i>Geophysical Research Letters</i> , 2003, 30, .	1.5	18
80	Visualization of ULF waves in SuperDARN data. <i>Geophysical Research Letters</i> , 2003, 30, .	1.5	43
81	On the occurrence and motion of decametre-scale irregularities in the sub-auroral, auroral, and polar cap ionosphere. <i>Annales Geophysicae</i> , 2003, 21, 1847-1868.	0.6	21
82	Birkeland current system key parameters derived from Iridium observations: Method and initial validation results. <i>Journal of Geophysical Research</i> , 2002, 107, SMP 11-1.	3.3	91
83	Propagation of ULF waves through the ionosphere: Analytic solutions for oblique magnetic fields. <i>Journal of Geophysical Research</i> , 2002, 107, SIA 11-1.	3.3	45
84	Detection of ultralow-frequency cavity modes using spacecraft data. <i>Journal of Geophysical Research</i> , 2002, 107, SMP 7-1.	3.3	52
85	Estimation of global field aligned currents using the iridium® System magnetometer data. <i>Geophysical Research Letters</i> , 2001, 28, 2165-2168.	1.5	187
86	Spatial structure of ULF waves: Comparison of magnetometer and Super Dual Auroral Radar Network data. <i>Journal of Geophysical Research</i> , 2001, 106, 10509-10517.	3.3	26
87	The phase structure of very low latitude ULF waves across dawn. <i>Journal of Geophysical Research</i> , 2001, 106, 15599-15607.	3.3	13
88	ULF wave attenuation in the high latitude ionospheric waveguide. <i>Advances in Space Research</i> , 2000, 25, 1559-1565.	1.2	13
89	FedSat "An Australian research microsatellite. <i>Advances in Space Research</i> , 2000, 25, 1325-1336.	1.2	8
90	Field line resonances and waveguide modes at low latitudes: 2. A model. <i>Journal of Geophysical Research</i> , 2000, 105, 7763-7774.	3.3	49

#	ARTICLE	IF	CITATIONS
91	Field line resonances and waveguide modes at low latitudes: 1. Observations. Journal of Geophysical Research, 2000, 105, 7747-7761.	3.3	59
92	Coordinated ISTP satellite and ground observations of morningside Pc5 waves. Journal of Geophysical Research, 1999, 104, 2381-2397.	3.3	12
93	Plasma mass density in the plasmatrough: Comparison using ULF waves and CRRES. Geophysical Research Letters, 1999, 26, 3277-3280.	1.5	21
94	A technique to investigate plasma mass density in the topside ionosphere using ULF waves. Journal of Geophysical Research, 1999, 104, 12723-12732.	3.3	25
95	Monitoring spatial and temporal variations in the dayside plasmasphere using geomagnetic field line resonances. Journal of Geophysical Research, 1999, 104, 19955-19969.	3.3	100
96	Monitoring cusp/cleft topology using Pc5 ULF waves. Geophysical Research Letters, 1998, 25, 1507-1510.	1.5	23
97	Variation of plasmatrough density derived from magnetospheric field line resonances. Journal of Geophysical Research, 1996, 101, 24737-24745.	3.3	66
98	The temporal variation of the frequency of high latitude field line resonances. Journal of Geophysical Research, 1995, 100, 7987.	3.3	78
99	Fine structure in the spectra of low latitude field line resonances. Geophysical Research Letters, 1995, 22, 2111-2114.	1.5	36
100	Low latitude geomagnetic field line resonance: Experiment and modeling. Journal of Geophysical Research, 1994, 99, 17547.	3.3	61
101	The resonance structure of low latitude Pc3 geomagnetic pulsations. Geophysical Research Letters, 1991, 18, 2293-2296.	1.5	167
102	Phase structure of low-latitude Pc3-4 pulsations. Planetary and Space Science, 1991, 39, 569-582.	0.9	22