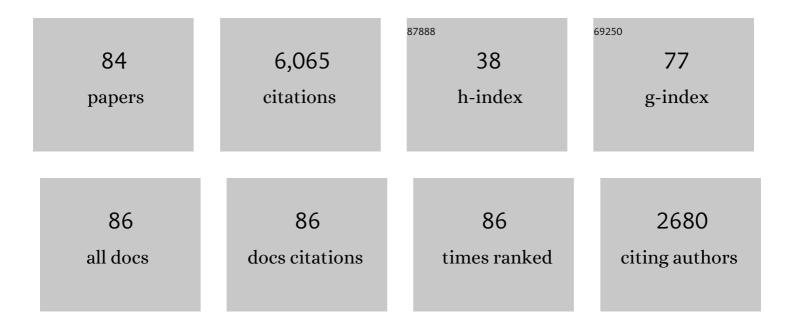
Christopher C Chaston

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	The FIELDS Instrument Suite for Solar Probe Plus. Space Science Reviews, 2016, 204, 49-82.	8.1	521
2	FAST satellite observations of large-amplitude solitary structures. Geophysical Research Letters, 1998, 25, 2041-2044.	4.0	504
3	The Electric Field and Waves Instruments on the Radiation Belt Storm Probes Mission. Space Science Reviews, 2013, 179, 183-220.	8.1	421
4	Highly structured slow solar wind emerging from an equatorial coronal hole. Nature, 2019, 576, 237-242.	27.8	401
5	IDENTIFICATION OF KINETIC ALFVÉN WAVE TURBULENCE IN THE SOLAR WIND. Astrophysical Journal Letters, 2012, 745, L9.	8.3	250
6	FAST satellite observations of electric field structures in the auroral zone. Geophysical Research Letters, 1998, 25, 2025-2028.	4.0	248
7	FAST Observations of Inertial Alfven Waves in the Dayside Aurora. Geophysical Research Letters, 1999, 26, 647-650.	4.0	188
8	FAST satellite wave observations in the AKR source region. Geophysical Research Letters, 1998, 25, 2061-2064.	4.0	177
9	Properties of small-scale Alfvén waves and accelerated electrons from FAST. Journal of Geophysical Research, 2003, 108, .	3.3	160
10	FAST observations of electron distributions within AKR source regions. Geophysical Research Letters, 1998, 25, 2069-2072.	4.0	145
11	Auroral ion acceleration in dispersive Alfv $ ilde{A}$ ©n waves. Journal of Geophysical Research, 2004, 109, .	3.3	137
12	Driven Alfven waves and electron acceleration: A FAST case study. Geophysical Research Letters, 2002, 29, 30-1.	4.0	121
13	Energy deposition by Alfvén waves into the dayside auroral oval: Cluster and FAST observations. Journal of Geophysical Research, 2005, 110, .	3.3	113
14	How important are dispersive Alfvén waves for auroral particle acceleration?. Geophysical Research Letters, 2007, 34, .	4.0	113
15	FAST observations of VLF waves in the auroral zone: Evidence of very low plasma densities. Geophysical Research Letters, 1998, 25, 2065-2068.	4.0	105
16	Alfv?n Waves, Density Cavities and Electron Acceleration Observed from the FAST Spacecraft. Physica Scripta, 2000, T84, 64.	2.5	103
17	Ionospheric erosion by Alfv $ ilde{A}$ ©n waves. Journal of Geophysical Research, 2006, 111, .	3.3	102
18	The Turbulent Alfvénic Aurora. Physical Review Letters, 2008, 100, 175003.	7.8	102

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19	Electron acceleration in the ionospheric Alfven resonator. Journal of Geophysical Research, 2002, 107, SMP 41-1.	3.3	101
20	Drift-Kinetic Alfvén Waves Observed near a Reconnection X Line in the Earth's Magnetopause. Physical Review Letters, 2005, 95, 065002.	7.8	93
21	Kinetic Alfvén Wave Turbulence and Transport through a Reconnection Diffusion Region. Physical Review Letters, 2009, 102, 015001.	7.8	87
22	Mode Conversion and Anomalous Transport in Kelvin-Helmholtz Vortices and Kinetic Alfvén Waves at the Earth's Magnetopause. Physical Review Letters, 2007, 99, 175004.	7.8	83
23	Switchbacks in the Solar Magnetic Field: Their Evolution, Their Content, and Their Effects on the Plasma. Astrophysical Journal, Supplement Series, 2020, 246, 68.	7.7	83
24	Quasi-parallel whistler mode waves observed by THEMIS during near-earth dipolarizations. Annales Geophysicae, 2009, 27, 2259-2275.	1.6	83
25	Review of Solar Wind Entry into and Transport Within the Plasma Sheet. Space Science Reviews, 2014, 184, 33-86.	8.1	82
26	Width and brightness of auroral arcs driven by inertial Alfven waves. Journal of Geophysical Research, 2003, 108, .	3.3	72
27	Observations of kinetic scale field line resonances. Geophysical Research Letters, 2014, 41, 209-215.	4.0	69
28	Electron modulation and ion cyclotron waves observed by FAST. Geophysical Research Letters, 1998, 25, 2045-2048.	4.0	68
29	Ion-scale Electromagnetic Waves in the Inner Heliosphere. Astrophysical Journal, Supplement Series, 2020, 246, 66.	7.7	67
30	Multiscale Coherent Structures and Broadband Waves due to Parallel Inhomogeneous Flows. Physical Review Letters, 2000, 85, 4285-4288.	7.8	65
31	Megavolt Parallel Potentials Arising from Double-Layer Streams in the Earth's Outer Radiation Belt. Physical Review Letters, 2013, 111, 235002.	7.8	64
32	Broadband lowâ€frequency electromagnetic waves in the inner magnetosphere. Journal of Geophysical Research: Space Physics, 2015, 120, 8603-8615.	2.4	56
33	Energy transport by kineticâ€scale electromagnetic waves in fast plasma sheet flows. Journal of Geophysical Research, 2012, 117, .	3.3	55
34	Kinetic effects in the acceleration of auroral electrons in small scale Alfven waves: A FAST case study. Geophysical Research Letters, 2003, 30, .	4.0	51
35	Non-Maxwellian particle distributions and electromagnetic ion cyclotron instabilities in the near-Earth magnetotail. Geophysical Research Letters, 1997, 24, 2913-2916.	4.0	42
36	Sheared flows and smallâ€scale Alfvén wave generation in the auroral acceleration region. Geophysical Research Letters, 2009, 36, .	4.0	41

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37	Electromagnetic waves on ion gyroâ€radii scales across the magnetopause. Geophysical Research Letters, 2011, 38, .	4.0	41
38	Large parallel electric fields, currents, and density cavities in dispersive Alfvén waves above the aurora. Journal of Geophysical Research, 2007, 112, n/a-n/a.	3.3	39
39	Ion temperature effects on magnetotail Alfvén wave propagation and electron energization. Journal of Geophysical Research: Space Physics, 2015, 120, 5623-5632.	2.4	39
40	Extreme ionospheric ion energization and electron heating in Alfvén waves in the storm time inner magnetosphere. Geophysical Research Letters, 2015, 42, 10,531.	4.0	38
41	Driving ionospheric outflows and magnetospheric O ⁺ energy density with Alfvén waves. Geophysical Research Letters, 2016, 43, 4825-4833.	4.0	37
42	Time development of fieldâ€aligned currents, potential drops, and plasma associated with an auroral poleward boundary intensification. Journal of Geophysical Research, 2010, 115, .	3.3	36
43	Electromagnetic ion cyclotron waves at proton cyclotron harmonics. Journal of Geophysical Research, 2002, 107, SMP 8-1.	3.3	34
44	Ion gyroradius effects on particle trapping in kinetic Alfvén waves along auroral field lines. Journal of Geophysical Research: Space Physics, 2016, 121, 10,831.	2.4	31
45	Localized parallel electric fields associated with inertial Alfvén waves. Physics of Plasmas, 2005, 12, 072901.	1.9	29
46	Small and mesoâ€scale properties of a substorm onset auroral arc. Journal of Geophysical Research, 2010, 115, .	3.3	29
47	Cross-scale coupling in the auroral acceleration region. Geophysical Research Letters, 2011, 38, n/a-n/a.	4.0	29
48	Observations of plasma waves in the colliding jet region of a magnetic flux rope flanked by two active X lines at the subsolar magnetopause. Journal of Geophysical Research: Space Physics, 2014, 119, 6256-6272.	2.4	29
49	Smallâ€scale auroral current sheet structuring. Journal of Geophysical Research, 2010, 115, .	3.3	28
50	Heating of the plasma sheet by broadband electromagnetic waves. Geophysical Research Letters, 2014, 41, 8185-8192.	4.0	28
51	Correction to "Energy transport by kineticâ€scale electromagnetic waves in fast plasma sheet flowsâ€. Journal of Geophysical Research, 2012, 117, .	3.3	27
52	Ion heating by broadband electromagnetic waves in the magnetosheath and across the magnetopause. Journal of Geophysical Research: Space Physics, 2013, 118, 5579-5591.	2.4	27
53	Characteristics of electromagnetic proton cyclotron waves along auroral field lines observed by FAST in regions of upward current. Geophysical Research Letters, 1998, 25, 2057-2060.	4.0	23
54	Motion of aurorae. Geophysical Research Letters, 2010, 37, .	4.0	23

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55	Dispersive Alfvén Wave Control of O ⁺ Ion Outflow and Energy Densities in the Inner Magnetosphere. Geophysical Research Letters, 2019, 46, 8597-8606.	4.0	23
56	ULF Waves and Auroral Electrons. Geophysical Monograph Series, 2006, , 239-257.	0.1	21
57	Pitch Angle Scattering and Loss of Radiation Belt Electrons in Broadband Electromagnetic Waves. Geophysical Research Letters, 2018, 45, 9344-9352.	4.0	21
58	CME-associated Energetic Ions at 0.23 au: Consideration of the Auroral Pressure Cooker Mechanism Operating in the Low Corona as a Possible Energization Process. Astrophysical Journal, Supplement Series, 2020, 246, 59.	7.7	21
59	Electron Distributions in Kinetic Scale Field Line Resonances: A Comparison of Simulations and Observations. Geophysical Research Letters, 2018, 45, 5826-5835.	4.0	19
60	Radial transport of radiation belt electrons in kinetic fieldâ€line resonances. Geophysical Research Letters, 2017, 44, 8140-8148.	4.0	18
61	Correlations Between Dispersive Alfvén Wave Activity, Electron Energization, and Ion Outflow in the Inner Magnetosphere. Geophysical Research Letters, 2020, 47, e2020GL088985.	4.0	18
62	IMF Control of Alfvénic Energy Transport and Deposition at High Latitudes. Journal of Geophysical Research: Space Physics, 2017, 122, 12,189.	2.4	17
63	MHD Mode Composition in the Inner Heliosphere from the <i>Parker Solar Probe</i> 's First Perihelion. Astrophysical Journal, Supplement Series, 2020, 246, 71.	7.7	17
64	Inverse ion-cyclotron damping: Laboratory demonstration and space ramifications. Physics of Plasmas, 2003, 10, 1605-1613.	1.9	15
65	The "Alfvénic surge―at substorm onset/expansion and the formation of "Inverted Vs― Cluster and IMACE observations. Journal of Geophysical Research: Space Physics, 2016, 121, 3978-4004.	2.4	14
66	Radiation Belt "Dropouts―and Driftâ€Bounce Resonances in Broadband Electromagnetic Waves. Geophysical Research Letters, 2018, 45, 2128-2137.	4.0	14
67	Alfvén waveâ€driven ionospheric mass outflow and electron precipitation during storms. Journal of Geophysical Research: Space Physics, 2016, 121, 7828-7846.	2.4	13
68	Generation of short-burst radiation through Alfvénic acceleration of auroral electrons. Journal of Geophysical Research, 2007, 112, n/a-n/a.	3.3	12
69	Small-Scale Dynamic Aurora. Space Science Reviews, 2021, 217, 17.	8.1	10
70	Magnetic reconnection in the auroral acceleration region. Geophysical Research Letters, 2015, 42, 1646-1653.	4.0	9
71	Storm phase–partitioned rates and budgets of global Alfvénic energy deposition, electron precipitation, and ion outflow. Journal of Atmospheric and Solar-Terrestrial Physics, 2018, 167, 1-12.	1.6	8
72	Filamentary Currents and Alfvénic Vortices in the Inner Magnetosphere. Geophysical Research Letters, 2020, 47, e2019GL086318.	4.0	8

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73	Electromagnetic Ion Cyclotron Waves Observed in the Near Earth Plasma Sheet Boundary Layer Journal of Geomagnetism and Geoelectricity, 1994, 46, 987-995.	0.9	8
74	MAVEN Observations of Low Frequency Steepened Magnetosonic Waves and Associated Heating of the Martian Nightside Ionosphere. Journal of Geophysical Research: Space Physics, 2021, 126, e2021JA029615.	2.4	8
75	Reply to "Comment by P. K. Shukla and L. Stenflo on â€~Kinetic effects in the acceleration of auroral electrons in small scale Alfvén waves: A FAST case study'â€, Geophysical Research Letters, 2004, 31, .	4.0	6
76	Quasilinear evolution of the ion cyclotron beam-anisotropy instability in a current carrying plasma. Physics of Plasmas, 1999, 6, 2588-2597.	1.9	5
77	Inferring Source Properties of Monoenergetic Electron Precipitation From Kappa and Maxwellian Momentâ€Voltage Relationships. Journal of Geophysical Research: Space Physics, 2019, 124, 1548-1567.	2.4	3
78	Turbulent Wavefield Morphology and Ion Scattering in the Magnetosheath. Geophysical Research Letters, 2020, 47, e2020GL089613.	4.0	3
79	Ion Scattering and Energization in Filamentary Structures Through Earth's Magnetosheath. Geophysical Research Letters, 2021, 48, e2021GL094029.	4.0	3
80	Nonthermal Limit of Monoenergetic Precipitation in the Auroral Acceleration Region. Geophysical Research Letters, 2018, 45, 10,167-10,176.	4.0	2
81	An Auroral Alfv $ ilde{A}$ ©n Wave Cascade. Frontiers in Astronomy and Space Sciences, 2021, 8, .	2.8	2
82	Fluidâ€Kinetic Variations in the Stormâ€īme Inner Magnetosphere. Geophysical Research Letters, 2022, 49, .	4.0	2
83	Electron Energization Signatures in Traveling Kinetic Alfvén Waves at Storm Time Injection Fronts. Geophysical Research Letters, 2022, 49, .	4.0	2

84 Evidence for a Multi-scale Aurora. , 2011, , 271-280.

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