Alex W Degeling

List of Publications by Year in Descending Order

70 papers	1,271 citations	21 h-index	33 g-index
83 ext. papers	1,506 ext. citations	3.3 avg, IF	4.11 L-index

#	Paper	IF	Citations
70	Determining the Global Scale Size of Chorus Waves in the Magnetosphere. *Journal of Geophysical Research: Space Physics*, **2021**, 126, e2021JA029569	2.6	0
69	Motion of Classic and Spontaneous Hot Flow Anomalies Observed by Cluster. *Journal of Geophysical Research: Space Physics*, **2021**, 126, e2021JA029418	2.6	0
68	Energetic Neutral Atom Distribution on the Lunar Surface and Its Relationship with Solar Wind Conditions. *Astrophysical Journal Letters*, **2021**, 922, L41	7.9	0
67	Electron Pitch Angle Distributions in Compressional Pc5 Waves by THEMIS-A Observations. *Geophysical Research Letters*, **2021**, 48, e2021GL095730	4.9	0
66	Vortex Generation and Auroral Response to a Solar Wind Dynamic Pressure Increase: Event Analyses. *Journal of Geophysical Research: Space Physics*, **2021**, 126, e2020JA028753	2.6	0
65	Transpolar Arcs During a Prolonged Radial Interplanetary Magnetic Field Interval. *Journal of Geophysical Research: Space Physics*, **2021**, 126, e2021JA029197	2.6	1
64	On the Relationship Between Shear Alfvén Waves, Auroral Electron Acceleration, and Field Line Resonances. *Space Science Reviews*, **2021**, 217, 1	7.5	4
63	Earth Wind as a Possible Exogenous Source of Lunar Surface Hydration. *Astrophysical Journal Letters*, **2021**, 907, L32	7.9	9
62	Determining the Temporal and Spatial Coherence of Plasmaspheric Hiss Waves in the Magnetosphere. *Journal of Geophysical Research: Space Physics*, **2021**, 126, e2020JA028635	2.6	2
61	Statistical properties of kinetic-scale magnetic holes in terrestrial space. *Earth and Planetary Physics* , **2021**, 5, 63-72	1.6	6
60	Low-frequency Whistler Waves Modulate Electrons and Generate Higher-frequency Whistler Waves in the Solar Wind. *Astrophysical Journal*, **2021**, 923, 216	4.7	0
59	North-South Asymmetric Nightside Distorted Transpolar Arcs Within A Framework of Deformed Magnetosphere-Ionosphere Coupling: IMF-By Dependence, Ionospheric Currents, and Magnetotail Reconnection. *Journal of Geophysical Research: Space Physics*, **2020**, 125, 2020JA027991	2.6	2
58	Unusual Location of the Geotail Magnetopause Near Lunar Orbit: A Case Study. *Journal of Geophysical Research: Space Physics*, **2020**, 125, e2019JA027401	2.6	2
57	Magnetosphere Response to Solar Wind Dynamic Pressure Change. *Geophysical Monograph Series*, **2020**, 77-97	1.1	4
56	Ultra-Low-Frequency Wave-Particle Interactions in Earth's Outer Radiation Belt. *Geophysical Monograph Series*, **2020**, 189-205	1.1	2
55	Ion-Scale Flux Rope Observed inside a Hot Flow Anomaly. *Geophysical Research Letters*, **2020**, 47, e2019GL085933	4.9	3
54	Rapid Outer Radiation Belt Flux Dropouts and Fast Acceleration During the March 2015 and 2013 Storms: The Role of Ultra-Low Frequency Wave Transport From a Dynamic Outer Boundary. *Journal of Geophysical Research: Space Physics*, **2020**, 125, e2019JA027179	2.6	15

53	Reconstruction of Plasma Structure with Anisotropic Pressure: Application to Pc5 Compressional Wave. *Astrophysical Journal*, **2020**, 889, 35	4.7	9
52	Electron Energization and Energy Dissipation in Microscale Electromagnetic Environments. *Astrophysical Journal Letters*, **2020**, 899, L31	7.9	6
51	Roles of Magnetospheric Convection on Nonlinear Drift Resonance Between Electrons and ULF Waves. *Journal of Geophysical Research: Space Physics*, **2020**, 125, e2020JA027787	2.6	3
50	Propagating and Dynamic Properties of Magnetic Dips in the Dayside Magnetosheath: MMS Observations. *Journal of Geophysical Research: Space Physics*, **2020**, 125, e2019JA026736	2.6	9
49	Kinetic-scale Flux Rope in the Magnetosheath Boundary Layer. *Astrophysical Journal*, **2020**, 897, 137	4.7	8
48	Propagation properties of foreshock cavitons: Cluster observations. *Science China Technological Sciences*, **2020**, 63, 173-182	3.5	5
47	Electron Dispersion and Parallel Electron Beam Observed Near the Separatrix. *Journal of Geophysical Research: Space Physics*, **2019**, 124, 7494-7504	2.6	2
46	Alteration of Particle Drift Resonance Dynamics Near Poloidal Mode Field Line Resonance Structures. *Journal of Geophysical Research: Space Physics*, **2019**, 124, 7385-7401	2.6	9
45	Dimensionality, Coordinate System and Reference Frame for Analysis of In-Situ Space Plasma and Field Data. *Space Science Reviews*, **2019**, 215, 1	7.5	30
44	Analytical model test of methods to find the geometry and velocity of magnetic structures. *Science China Technological Sciences*, **2019**, 62, 1003-1014	3.5	3
43	How Do Ultra-Low Frequency Waves Access the Inner Magnetosphere During Geomagnetic Storms?. *Geophysical Research Letters*, **2019**, 46, 10699-10709	4.9	10
42	Electron Mirror-mode Structure: Magnetospheric Multiscale Observations. *Astrophysical Journal Letters*, **2019**, 881, L31	7.9	20
41	Pc4-5 Poloidal ULF Wave Observed in the Dawnside Plasmaspheric Plume. *Journal of Geophysical Research: Space Physics*, **2019**, 124, 9986-9998	2.6	5
40	Waves in Kinetic-Scale Magnetic Dips: MMS Observations in the Magnetosheath. *Geophysical Research Letters*, **2019**, 46, 523-533	4.9	35
39	Control of ULF Wave Accessibility to the Inner Magnetosphere by the Convection of Plasma Density. *Journal of Geophysical Research: Space Physics*, **2018**, 123, 1086-1099	2.6	26
38	Spatial Distribution and Semiannual Variation of Cold-Dense Plasma Sheet. *Journal of Geophysical Research: Space Physics*, **2018**, 123, 464-472	2.6	3
37	Magnetospheric Multiscale Observations of Electron Scale Magnetic Peak. *Geophysical Research Letters*, **2018**, 45, 527-537	4.9	25
36	The Role of Localized Compressional Ultra-low Frequency Waves in Energetic Electron Precipitation. *Journal of Geophysical Research: Space Physics*, **2018**, 123, 1900	2.6	21

35	Observations of Kelvin-Helmholtz Waves in the Earth's Magnetotail Near the Lunar Orbit. *Journal of Geophysical Research: Space Physics*, **2018**, 123, 3836-3847	2.6	10
34	Poloidal Mode Wave-Particle Interactions Inferred From Van Allen Probes and CARISMA Ground-Based Observations. *Journal of Geophysical Research: Space Physics*, **2018**, 123, 4652-4667	2.6	17
33	Dayside Magnetospheric and Ionospheric Responses to a Foreshock Transient on 25 June 2008: 1. FLR Observed by Satellite and Ground-Based Magnetometers. *Journal of Geophysical Research: Space Physics*, **2018**, 123, 6335-6346	2.6	29
32	Electron Dynamics in Magnetosheath Mirror-Mode Structures. *Journal of Geophysical Research: Space Physics*, **2018**, 123, 5561-5570	2.6	24
31	Explaining the apparent impenetrable barrier to ultra-relativistic electrons in the outer Van Allen belt. *Nature Communications*, **2018**, 9, 1844	17.4	26
30	Statistical study of ULF waves in the magnetotail by THEMIS observations. *Annales Geophysicae*, **2018**, 36, 1335-1346	2	5
29	Modeling cross L shell impacts of magnetopause shadowing and ULF wave radial diffusion in the Van Allen belts. *Geophysical Research Letters*, **2014**, 41, 6556-6562	4.9	25
28	Field line resonances as a trigger and a tracer for substorm onset. *Journal of Geophysical Research: Space Physics*, **2014**, 119, 5343-5363	2.6	20
27	Modeling radiation belt electron acceleration by ULF fast mode waves, launched by solar wind dynamic pressure fluctuations. *Journal of Geophysical Research: Space Physics*, **2014**, 119, 8916-8928	2.6	19
26	Magnetospheric convection and magnetopause shadowing effects in ULF wave-driven energetic electron transport. *Journal of Geophysical Research: Space Physics*, **2013**, 118, 2919-2927	2.6	14
25	Constructing the frequency and wave normal distribution of whistler-mode wave power. *Journal of Geophysical Research: Space Physics*, **2013**, 118, 1984-1991	2.6	8
24	Whistler mode wave growth and propagation in the prenoon magnetosphere. *Journal of Geophysical Research*, **2012**, 117, n/a-n/a		5
23	Ultralow-frequency modulation of whistler-mode wave growth. *Journal of Geophysical Research*, **2011**, 116, n/a-n/a		18
22	Convective and diffusive ULF wave driven radiation belt electron transport. *Journal of Geophysical Research*, **2011**, 116, n/a-n/a		12
21	Modeling ULF waves in a compressed dipole magnetic field. *Journal of Geophysical Research*, **2010**, 115, n/a-n/a		37
20	POLARIZATION PROPERTIES OF THE ULTRA-LOW FREQUENCY WAVES IN NON-AXISYMMETRIC BACKGROUND MAGNETIC FIELDS **2009**, 225-235		1
19	Drift resonant generation of peaked relativistic electron distributions by Pc 5 ULF waves. *Journal of Geophysical Research*, **2008**, 113, n/a-n/a		63
18	Resonant drift echoes in electron phase space density produced by dayside Pc5 waves following a geomagnetic storm. *Journal of Geophysical Research*, **2008**, 113,		21

17	Polarization properties of standing shear Alfvén waves in non-axisymmetric background magnetic fields. *Annales Geophysicae*, **2007**, 25, 815-822	2	29
16	Frequency control of type-I ELMs by magnetic triggering in ASDEX Upgrade. *Plasma Physics and Controlled Fusion*, **2004**, 46, L31-L39	2	55
15	Were the chaotic ELMs in TCV the result of an ARMA process?. *Plasma Physics and Controlled Fusion*, **2004**, 46, L15-L21	2	6
14	The search for chaotic edge localized modes in ASDEX Upgrade. *Plasma Physics and Controlled Fusion*, **2004**, 46, 1409-1422	2	7
13	ITER-relevant H-mode physics at ASDEX Upgrade. *Plasma Physics and Controlled Fusion*, **2004**, 46, B511-B525	2	22
12	Autoregressive moving average model for analyzing edge localized mode time series on Axially Symmetric Divertor Experiment (ASDEX) Upgrade tokamak. *Physics of Plasmas*, **2004**, 11, 5658-5667	2.1	8
11	Transitions from electrostatic to electromagnetic whistler wave excitation. *Physics of Plasmas*, **2004**, 11, 2144-2155	2.1	26
10	AXUV bolometer and Lyman-α camera systems on the TCV tokamak. *Review of Scientific Instruments*, **2004**, 75, 4139-4141	1.7	16
9	Magnetic triggering of ELMs in TCV. *Plasma Physics and Controlled Fusion*, **2003**, 45, 1637-1655	2	114
8	Accessibility and properties of ELMy H-mode and ITB plasmas in TCV. *Plasma Physics and Controlled Fusion*, **2003**, 45, A351-A365	2	10
7	Search for determinism in ELM time series in TCV. *Plasma Physics and Controlled Fusion*, **2002**, 44, A373-A382	2	12
6	Dynamics of edge localized modes in the TCV tokamak. *Plasma Physics and Controlled Fusion*, **2001**, 43, 1671-1698	2	28
5	Absolute measurements and modeling of radio frequency electric fields using a retarding field energy analyzer. *Physics of Plasmas*, **2000**, 7, 5232-5241	2.1	71
4	Model for relaxation oscillations in a helicon discharge. *Physics of Plasmas*, **1999**, 6, 1641-1648	2.1	32
3	Intense on-axis plasma production and associated relaxation oscillations in a large volume helicon source. *Physics of Plasmas*, **1999**, 6, 3664-3673	2.1	33
2	Modeling ionization by helicon waves. *Physics of Plasmas*, **1997**, 4, 2748-2755	2.1	35
1	Plasma production from helicon waves. *Physics of Plasmas*, **1996**, 3, 2788-2796	2.1	126