

Alex W Degeling

List of Publications by Citations

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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.

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	Plasma production from helicon waves. <i>Physics of Plasmas</i> , 1996 , 3, 2788-2796	2.1	126
69	Magnetic triggering of ELMs in TCV. <i>Plasma Physics and Controlled Fusion</i> , 2003 , 45, 1637-1655	2	114
68	Absolute measurements and modeling of radio frequency electric fields using a retarding field energy analyzer. <i>Physics of Plasmas</i> , 2000 , 7, 5232-5241	2.1	71
67	Drift resonant generation of peaked relativistic electron distributions by Pc 5 ULF waves. <i>Journal of Geophysical Research</i> , 2008 , 113, n/a-n/a		63
66	Frequency control of type-I ELMs by magnetic triggering in ASDEX Upgrade. <i>Plasma Physics and Controlled Fusion</i> , 2004 , 46, L31-L39	2	55
65	Modeling ULF waves in a compressed dipole magnetic field. <i>Journal of Geophysical Research</i> , 2010 , 115, n/a-n/a		37
64	Modeling ionization by helicon waves. <i>Physics of Plasmas</i> , 1997 , 4, 2748-2755	2.1	35
63	Waves in Kinetic-Scale Magnetic Dips: MMS Observations in the Magnetosheath. <i>Geophysical Research Letters</i> , 2019 , 46, 523-533	4.9	35
62	Intense on-axis plasma production and associated relaxation oscillations in a large volume helicon source. <i>Physics of Plasmas</i> , 1999 , 6, 3664-3673	2.1	33
61	Model for relaxation oscillations in a helicon discharge. <i>Physics of Plasmas</i> , 1999 , 6, 1641-1648	2.1	32
60	Dimensionality, Coordinate System and Reference Frame for Analysis of In-Situ Space Plasma and Field Data. <i>Space Science Reviews</i> , 2019 , 215, 1	7.5	30
59	Dayside Magnetospheric and Ionospheric Responses to a Foreshock Transient on 25 June 2008: 1. FLR Observed by Satellite and Ground-Based Magnetometers. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 6335-6346	2.6	29
58	Polarization properties of standing shear Alfvén waves in non-axisymmetric background magnetic fields. <i>Annales Geophysicae</i> , 2007 , 25, 815-822	2	29
57	Dynamics of edge localized modes in the TCV tokamak. <i>Plasma Physics and Controlled Fusion</i> , 2001 , 43, 1671-1698	2	28
56	Control of ULF Wave Accessibility to the Inner Magnetosphere by the Convection of Plasma Density. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 1086-1099	2.6	26
55	Explaining the apparent impenetrable barrier to ultra-relativistic electrons in the outer Van Allen belt. <i>Nature Communications</i> , 2018 , 9, 1844	17.4	26
54	Transitions from electrostatic to electromagnetic whistler wave excitation. <i>Physics of Plasmas</i> , 2004 , 11, 2144-2155	2.1	26

53	Magnetospheric Multiscale Observations of Electron Scale Magnetic Peak. <i>Geophysical Research Letters</i> , 2018 , 45, 527-537	4.9	25
52	Modeling cross L shell impacts of magnetopause shadowing and ULF wave radial diffusion in the Van Allen belts. <i>Geophysical Research Letters</i> , 2014 , 41, 6556-6562	4.9	25
51	Electron Dynamics in Magnetosheath Mirror-Mode Structures. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 5561-5570	2.6	24
50	ITER-relevant H-mode physics at ASDEX Upgrade. <i>Plasma Physics and Controlled Fusion</i> , 2004 , 46, B511-B525		22
49	The Role of Localized Compressional Ultra-low Frequency Waves in Energetic Electron Precipitation. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 1900	2.6	21
48	Resonant drift echoes in electron phase space density produced by dayside Pc5 waves following a geomagnetic storm. <i>Journal of Geophysical Research</i> , 2008 , 113,		21
47	Electron Mirror-mode Structure: Magnetospheric Multiscale Observations. <i>Astrophysical Journal Letters</i> , 2019 , 881, L31	7.9	20
46	Field line resonances as a trigger and a tracer for substorm onset. <i>Journal of Geophysical Research: Space Physics</i> , 2014 , 119, 5343-5363	2.6	20
45	Modeling radiation belt electron acceleration by ULF fast mode waves, launched by solar wind dynamic pressure fluctuations. <i>Journal of Geophysical Research: Space Physics</i> , 2014 , 119, 8916-8928	2.6	19
44	Ultralow-frequency modulation of whistler-mode wave growth. <i>Journal of Geophysical Research</i> , 2011 , 116, n/a-n/a		18
43	Poloidal Mode Wave-Particle Interactions Inferred From Van Allen Probes and CARISMA Ground-Based Observations. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 4652-4667	2.6	17
42	AXUV bolometer and Lyman- α camera systems on the TCV tokamak. <i>Review of Scientific Instruments</i> , 2004 , 75, 4139-4141	1.7	16
41	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. <i>Journal of Geophysical Research: Space Physics</i> , 2020 , 125, e2019JA027179	2.6	15
40	Magnetospheric convection and magnetopause shadowing effects in ULF wave-driven energetic electron transport. <i>Journal of Geophysical Research: Space Physics</i> , 2013 , 118, 2919-2927	2.6	14
39	Convective and diffusive ULF wave driven radiation belt electron transport. <i>Journal of Geophysical Research</i> , 2011 , 116, n/a-n/a		12
38	Search for determinism in ELM time series in TCV. <i>Plasma Physics and Controlled Fusion</i> , 2002 , 44, A373-A382		12
37	Observations of Kelvin-Helmholtz Waves in the Earth's Magnetotail Near the Lunar Orbit. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 3836-3847	2.6	10
36	How Do Ultra-Low Frequency Waves Access the Inner Magnetosphere During Geomagnetic Storms?. <i>Geophysical Research Letters</i> , 2019 , 46, 10699-10709	4.9	10

35	Accessibility and properties of ELMy H-mode and ITB plasmas in TCV. <i>Plasma Physics and Controlled Fusion</i> , 2003 , 45, A351-A365	2	10
34	Alteration of Particle Drift Resonance Dynamics Near Poloidal Mode Field Line Resonance Structures. <i>Journal of Geophysical Research: Space Physics</i> , 2019 , 124, 7385-7401	2.6	9
33	Reconstruction of Plasma Structure with Anisotropic Pressure: Application to Pc5 Compressional Wave. <i>Astrophysical Journal</i> , 2020 , 889, 35	4.7	9
32	Propagating and Dynamic Properties of Magnetic Dips in the Dayside Magnetosheath: MMS Observations. <i>Journal of Geophysical Research: Space Physics</i> , 2020 , 125, e2019JA026736	2.6	9
31	Earth Wind as a Possible Exogenous Source of Lunar Surface Hydration. <i>Astrophysical Journal Letters</i> , 2021 , 907, L32	7.9	9
30	Constructing the frequency and wave normal distribution of whistler-mode wave power. <i>Journal of Geophysical Research: Space Physics</i> , 2013 , 118, 1984-1991	2.6	8
29	Autoregressive moving average model for analyzing edge localized mode time series on Axially Symmetric Divertor Experiment (ASDEX) Upgrade tokamak. <i>Physics of Plasmas</i> , 2004 , 11, 5658-5667	2.1	8
28	Kinetic-scale Flux Rope in the Magnetosheath Boundary Layer. <i>Astrophysical Journal</i> , 2020 , 897, 137	4.7	8
27	The search for chaotic edge localized modes in ASDEX Upgrade. <i>Plasma Physics and Controlled Fusion</i> , 2004 , 46, 1409-1422	2	7
26	Ion-Scale Flux Rope Observed inside a Hot Flow Anomaly. <i>Geophysical Research Letters</i> , 2020 , 47, e2019GL108593	4.9	8
25	Were the chaotic ELMs in TCV the result of an ARMA process?. <i>Plasma Physics and Controlled Fusion</i> , 2004 , 46, L15-L21	2	6
24	Electron Energization and Energy Dissipation in Microscale Electromagnetic Environments. <i>Astrophysical Journal Letters</i> , 2020 , 899, L31	7.9	6
23	Statistical properties of kinetic-scale magnetic holes in terrestrial space. <i>Earth and Planetary Physics</i> , 2021 , 5, 63-72	1.6	6
22	Whistler mode wave growth and propagation in the prenoon magnetosphere. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		5
21	Pc4-5 Poloidal ULF Wave Observed in the Dawnside Plasmaspheric Plume. <i>Journal of Geophysical Research: Space Physics</i> , 2019 , 124, 9986-9998	2.6	5
20	Propagation properties of foreshock cavitons: Cluster observations. <i>Science China Technological Sciences</i> , 2020 , 63, 173-182	3.5	5
19	Statistical study of ULF waves in the magnetotail by THEMIS observations. <i>Annales Geophysicae</i> , 2018 , 36, 1335-1346	2	5
18	Magnetosphere Response to Solar Wind Dynamic Pressure Change. <i>Geophysical Monograph Series</i> , 2020 , 77-97	1.1	4

17	On the Relationship Between Shear Alfvén Waves, Auroral Electron Acceleration, and Field Line Resonances. <i>Space Science Reviews</i> , 2021 , 217, 1	7.5	4
16	Analytical model test of methods to find the geometry and velocity of magnetic structures. <i>Science China Technological Sciences</i> , 2019 , 62, 1003-1014	3.5	3
15	Spatial Distribution and Semiannual Variation of Cold-Dense Plasma Sheet. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 464-472	2.6	3
14	Roles of Magnetospheric Convection on Nonlinear Drift Resonance Between Electrons and ULF Waves. <i>Journal of Geophysical Research: Space Physics</i> , 2020 , 125, e2020JA027787	2.6	3
13	Electron Dispersion and Parallel Electron Beam Observed Near the Separatrix. <i>Journal of Geophysical Research: Space Physics</i> , 2019 , 124, 7494-7504	2.6	2
12	North-South Asymmetric Nightside Distorted Transpolar Arcs Within A Framework of Deformed Magnetosphere-Ionosphere Coupling: IMF-By Dependence, Ionospheric Currents, and Magnetotail Reconnection. <i>Journal of Geophysical Research: Space Physics</i> , 2020 , 125, 2020JA027991	2.6	2
11	Unusual Location of the Geotail Magnetopause Near Lunar Orbit: A Case Study. <i>Journal of Geophysical Research: Space Physics</i> , 2020 , 125, e2019JA027401	2.6	2
10	Ultra-Low-Frequency Wave-Particle Interactions in Earth's Outer Radiation Belt. <i>Geophysical Monograph Series</i> , 2020 , 189-205	1.1	2
9	Determining the Temporal and Spatial Coherence of Plasmaspheric Hiss Waves in the Magnetosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2021 , 126, e2020JA028635	2.6	2
8	POLARIZATION PROPERTIES OF THE ULTRA-LOW FREQUENCY WAVES IN NON-AXISYMMETRIC BACKGROUND MAGNETIC FIELDS 2009 , 225-235		1
7	Transpolar Arcs During a Prolonged Radial Interplanetary Magnetic Field Interval. <i>Journal of Geophysical Research: Space Physics</i> , 2021 , 126, e2021JA029197	2.6	1
6	Determining the Global Scale Size of Chorus Waves in the Magnetosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2021 , 126, e2021JA029569	2.6	0
5	Motion of Classic and Spontaneous Hot Flow Anomalies Observed by Cluster. <i>Journal of Geophysical Research: Space Physics</i> , 2021 , 126, e2021JA029418	2.6	0
4	Energetic Neutral Atom Distribution on the Lunar Surface and Its Relationship with Solar Wind Conditions. <i>Astrophysical Journal Letters</i> , 2021 , 922, L41	7.9	0
3	Electron Pitch Angle Distributions in Compressional Pc5 Waves by THEMIS-A Observations. <i>Geophysical Research Letters</i> , 2021 , 48, e2021GL095730	4.9	0
2	Vortex Generation and Auroral Response to a Solar Wind Dynamic Pressure Increase: Event Analyses. <i>Journal of Geophysical Research: Space Physics</i> , 2021 , 126, e2020JA028753	2.6	0
1	Low-frequency Whistler Waves Modulate Electrons and Generate Higher-frequency Whistler Waves in the Solar Wind. <i>Astrophysical Journal</i> , 2021 , 923, 216	4.7	0