

# Danny Summers

## List of Publications by Citations

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106  
papers

8,318  
citations

44  
h-index

91  
g-index

107  
ext. papers

9,015  
ext. citations

3.1  
avg. IF

6.01  
L-index

#	Paper	IF	Citations
106	Relativistic theory of wave-particle resonant diffusion with application to electron acceleration in the magnetosphere. <i>Journal of Geophysical Research</i> , <b>1998</b> , 103, 20487-20500		657
105	The modified plasma dispersion function. <i>Physics of Fluids B</i> , <b>1991</b> , 3, 1835-1847		578
104	Relativistic electron pitch-angle scattering by electromagnetic ion cyclotron waves during geomagnetic storms. <i>Journal of Geophysical Research</i> , <b>2003</b> , 108,		532
103	The Axial Double Probe and Fields Signal Processing for the MMS Mission. <i>Space Science Reviews</i> , <b>2016</b> , 199, 167-188	7.5	385
102	Theory and simulation of the generation of whistler-mode chorus. <i>Journal of Geophysical Research</i> , <b>2008</b> , 113, n/a-n/a		360
101	Statistical analysis of relativistic electron energies for cyclotron resonance with EMIC waves observed on CRRES. <i>Journal of Geophysical Research</i> , <b>2003</b> , 108,		342
100	Timescales for radiation belt electron acceleration and loss due to resonant wave-particle interactions: 2. Evaluation for VLF chorus, ELF hiss, and electromagnetic ion cyclotron waves. <i>Journal of Geophysical Research</i> , <b>2007</b> , 112, n/a-n/a		322
99	The FIELDS Instrument Suite for Solar Probe Plus: Measuring the Coronal Plasma and Magnetic Field, Plasma Waves and Turbulence, and Radio Signatures of Solar Transients. <i>Space Science Reviews</i> , <b>2016</b> , 204, 49-82	7.5	303
98	Timescale for MeV electron microburst loss during geomagnetic storms. <i>Journal of Geophysical Research</i> , <b>2005</b> , 110,		260
97	Substorm dependence of plasmaspheric hiss. <i>Journal of Geophysical Research</i> , <b>2004</b> , 109,		249
96	Nonlinear mechanisms of lower-band and upper-band VLF chorus emissions in the magnetosphere. <i>Journal of Geophysical Research</i> , <b>2009</b> , 114, n/a-n/a		216
95	Quasi-linear diffusion coefficients for field-aligned electromagnetic waves with applications to the magnetosphere. <i>Journal of Geophysical Research</i> , <b>2005</b> , 110,		207
94	Evidence for chorus-driven electron acceleration to relativistic energies from a survey of geomagnetically disturbed periods. <i>Journal of Geophysical Research</i> , <b>2003</b> , 108,		205
93	Timescales for radiation belt electron acceleration and loss due to resonant wave-particle interactions: 1. Theory. <i>Journal of Geophysical Research</i> , <b>2007</b> , 112, n/a-n/a		180
92	Relativistic turning acceleration of resonant electrons by coherent whistler mode waves in a dipole magnetic field. <i>Journal of Geophysical Research</i> , <b>2007</b> , 112, n/a-n/a		179
91	A model for generating relativistic electrons in the Earth's inner magnetosphere based on gyroresonant wave-particle interactions. <i>Journal of Geophysical Research</i> , <b>2000</b> , 105, 2625-2639		164
90	Model of the energization of outer-zone electrons by whistler-mode chorus during the October 9, 1990 geomagnetic storm. <i>Geophysical Research Letters</i> , <b>2002</b> , 29, 27-1-27-4	4.9	157

89	Electron scattering by whistler-mode ELF hiss in plasmaspheric plumes. <i>Journal of Geophysical Research</i> , <b>2008</b> , 113, n/a-n/a		154
88	Energetic outer zone electron loss timescales during low geomagnetic activity. <i>Journal of Geophysical Research</i> , <b>2006</b> , 111,		152
87	Landau damping in space plasmas. <i>Physics of Fluids B</i> , <b>1991</b> , 3, 2117-2123		129
86	Bounce-averaged diffusion coefficients for field-aligned chorus waves. <i>Journal of Geophysical Research</i> , <b>2006</b> , 111,		108
85	Calculation of the dielectric tensor for a generalized Lorentzian ( $\kappa$ ) distribution function. <i>Physics of Plasmas</i> , <b>1994</b> , 1, 2012-2025	2.1	104
84	Formation of power-law energy spectra in space plasmas by stochastic acceleration due to whistler-mode waves. <i>Geophysical Research Letters</i> , <b>1998</b> , 25, 4099-4102	4.9	98
83	Dynamics of high-energy electrons interacting with whistler mode chorus emissions in the magnetosphere. <i>Journal of Geophysical Research</i> , <b>2006</b> , 111,		97
82	Evidence for acceleration of outer zone electrons to relativistic energies by whistler mode chorus. <i>Annales Geophysicae</i> , <b>2002</b> , 20, 967-979	2	92
81	Ultra-relativistic acceleration of electrons in planetary magnetospheres. <i>Geophysical Research Letters</i> , <b>2007</b> , 34,	4.9	91
80	Instability of electromagnetic R-mode waves in a relativistic plasma. <i>Physics of Plasmas</i> , <b>1998</b> , 5, 2489-2497		88
79	A new tool for analyzing microinstabilities in space plasmas modeled by a generalized Lorentzian ( $\kappa$ ) distribution. <i>Journal of Geophysical Research</i> , <b>1992</b> , 97, 16827		84
78	Formation of energetic electron butterfly distributions by magnetosonic waves via Landau resonance. <i>Geophysical Research Letters</i> , <b>2016</b> , 43, 3009-3016	4.9	73
77	Limit on stably trapped particle fluxes in planetary magnetospheres. <i>Journal of Geophysical Research</i> , <b>2009</b> , 114, n/a-n/a		72
76	Microburst precipitation of energetic electrons associated with chorus wave generation. <i>Geophysical Research Letters</i> , <b>2010</b> , 37, n/a-n/a	4.9	71
75	Formation process of relativistic electron flux through interaction with chorus emissions in the Earth's inner magnetosphere. <i>Journal of Geophysical Research: Space Physics</i> , <b>2015</b> , 120, 9545-9562	2.6	68
74	Warm plasma effects on electromagnetic ion cyclotron wave MeV electron interactions in the magnetosphere. <i>Journal of Geophysical Research</i> , <b>2011</b> , 116,		67
73	Electromagnetic ion-cyclotron instability in space plasmas. <i>Journal of Geophysical Research</i> , <b>1993</b> , 98, 17475		66
72	Fine structure of plasmaspheric hiss. <i>Journal of Geophysical Research: Space Physics</i> , <b>2014</b> , 119, 9134-9142	2.6	63

71	Ion-acoustic wave instability driven by drifting electrons in a generalized Lorentzian distribution. <i>Journal of Plasma Physics</i> , <b>1992</b> , 47, 445-464	2.7	63
70	Competition between acceleration and loss mechanisms of relativistic electrons during geomagnetic storms. <i>Journal of Geophysical Research</i> , <b>2004</b> , 109,		58
69	Plasma microinstabilities driven by loss-cone distributions. <i>Journal of Plasma Physics</i> , <b>1995</b> , 53, 293-315	2.7	56
68	Aspects of Nonlinear Wave-Particle Interactions. <i>Geophysical Monograph Series</i> , <b>2013</b> , 255-264	1.1	51
67	Relativistic turning acceleration of radiation belt electrons by whistler mode chorus. <i>Journal of Geophysical Research</i> , <b>2008</b> , 113, n/a-n/a		51
66	The Influence of Wave-Particle Interactions on Relativistic Electron Dynamics During Storms. <i>Geophysical Monograph Series</i> , <b>2005</b> , 101-112	1.1	48
65	Hot Plasma Effects on the Cyclotron-Resonant Pitch-Angle Scattering Rates of Radiation Belt Electrons Due to EMIC Waves. <i>Geophysical Research Letters</i> , <b>2018</b> , 45, 21-30	4.9	47
64	Generation Processes of Whistler Mode Chorus Emissions: Current Status of Nonlinear Wave Growth Theory. <i>Geophysical Monograph Series</i> , <b>2013</b> , 243-254	1.1	47
63	Computer simulations of the chaotic dynamics of the Pierce beam-plasma system. <i>Physics of Plasmas</i> , <b>1996</b> , 3, 177-191	2.1	45
62	Nonlinear wave growth theory of coherent hiss emissions in the plasmasphere. <i>Journal of Geophysical Research: Space Physics</i> , <b>2015</b> , 120, 7642-7657	2.6	41
61	Relativistic electron precipitation induced by EMIC-triggered emissions in a dipole magnetosphere. <i>Journal of Geophysical Research: Space Physics</i> , <b>2015</b> , 120, 4384-4399	2.6	41
60	Electromagnetic ion cyclotron waves in the Earth's magnetosphere with a kappa-Maxwellian particle distribution. <i>Journal of Geophysical Research: Space Physics</i> , <b>2015</b> , 120, 8426-8439	2.6	38
59	Estimating relativistic electron pitch angle scattering rates using properties of the electromagnetic ion cyclotron wave spectrum. <i>Journal of Geophysical Research</i> , <b>2006</b> , 111,		35
58	Bounce resonance scattering of radiation belt electrons by H+ band EMIC waves. <i>Journal of Geophysical Research: Space Physics</i> , <b>2017</b> , 122, 1702-1713	2.6	34
57	Evaluation of the modified plasma dispersion function for half-integral indices. <i>Physics of Plasmas</i> , <b>1996</b> , 3, 2496-2501	2.1	33
56	Rapid energization of radiation belt electrons by nonlinear wave trapping. <i>Annales Geophysicae</i> , <b>2008</b> , 26, 3451-3456	2	32
55	Parametric study of electromagnetic ion cyclotron instability in the Earth's magnetosphere. <i>Journal of Geophysical Research</i> , <b>1996</b> , 101, 15467-15474		32
54	Correction to Formation of power-law energy spectra in space plasmas by stochastic acceleration due to whistler-mode waves. <i>Geophysical Research Letters</i> , <b>1999</b> , 26, 1121-1124	4.9	31

53	Growth and damping of oblique electromagnetic ion cyclotron waves in the Earth's magnetosphere. <i>Journal of Geophysical Research</i> , <b>1996</b> , 101, 15457-15466		31
52	Nonlinear spatiotemporal evolution of whistler mode chorus waves in Earth's inner magnetosphere. <i>Journal of Geophysical Research</i> , <b>2012</b> , 117, n/a-n/a		30
51	Subpacket structures in EMIC rising tone emissions observed by the THEMIS probes. <i>Journal of Geophysical Research: Space Physics</i> , <b>2015</b> , 120, 7318-7330	2.6	27
50	The Energization and Radiation in Geospace (ERG) Project. <i>Geophysical Monograph Series</i> , <b>2013</b> , 103-116	1.1	25
49	Self-consistent particle simulation of whistler mode triggered emissions. <i>Journal of Geophysical Research</i> , <b>2010</b> , 115, n/a-n/a		25
48	Effects of nonlinear wave growth on extreme radiation belt electron fluxes. <i>Journal of Geophysical Research</i> , <b>2011</b> , 116, n/a-n/a		24
47	Energetic electron fluxes at Saturn from Cassini observations. <i>Journal of Geophysical Research</i> , <b>2012</b> , 117, n/a-n/a		23
46	Observational evidence of the nonlinear wave growth theory of plasmaspheric hiss. <i>Geophysical Research Letters</i> , <b>2016</b> , 43, 10,040-10,049	4.9	22
45	Parameter spaces for linear and nonlinear whistler-mode waves. <i>Physics of Plasmas</i> , <b>2013</b> , 20, 072110	2.1	22
44	Bounce Resonance Scattering of Radiation Belt Electrons by Low-Frequency Hiss: Comparison With Cyclotron and Landau Resonances. <i>Geophysical Research Letters</i> , <b>2017</b> , 44, 9547-9554	4.9	21
43	Electron Scattering by Plasmaspheric Hiss in a Nightside Plume. <i>Geophysical Research Letters</i> , <b>2018</b> , 45, 4618-4627	4.9	19
42	Survey of radiation belt energetic electron pitch angle distributions based on the Van Allen Probes MagEIS measurements. <i>Journal of Geophysical Research: Space Physics</i> , <b>2016</b> , 121, 1078-1090	2.6	17
41	Statistical Properties of Hiss in Plasmaspheric Plumes and Associated Scattering Losses of Radiation Belt Electrons. <i>Geophysical Research Letters</i> , <b>2019</b> , 46, 5670-5680	4.9	17
40	Sensitivity of EMIC Wave-Driven Scattering Loss of Ring Current Protons to Wave Normal Angle Distribution. <i>Geophysical Research Letters</i> , <b>2019</b> , 46, 590-598	4.9	17
39	Fine Structure of Whistler Mode Hiss in Plasmaspheric Plumes Observed by the Van Allen Probes. <i>Journal of Geophysical Research: Space Physics</i> , <b>2018</b> , 123, 9055-9064	2.6	15
38	Pitch-angle scattering rates in planetary magnetospheres. <i>Journal of Plasma Physics</i> , <b>2005</b> , 71, 237-250	2.7	14
37	Comparative study of outer-zone relativistic electrons observed by Akebono and CRRES. <i>Journal of Geophysical Research</i> , <b>2005</b> , 110,		13
36	Optimal technique for estimating the reachable set of a controlled n-dimensional linear system. <i>International Journal of Systems Science</i> , <b>1990</b> , 21, 675-692	2.3	12

35	Effects of cold electron number density variation on whistler-mode wave growth. <i>Annales Geophysicae</i> , <b>2014</b> , 32, 889-898	2	11
34	Dependence of Whistler Mode Chorus Wave Generation on the Maximum Linear Growth Rate. <i>Journal of Geophysical Research: Space Physics</i> , <b>2019</b> , 124, 4114-4124	2.6	10
33	A statistical study of proton pitch angle distributions measured by the Radiation Belt Storm Probes Ion Composition Experiment. <i>Journal of Geophysical Research: Space Physics</i> , <b>2016</b> , 121, 5233-5249	2.6	10
32	Limiting energy spectrum of an electron radiation belt. <i>Journal of Geophysical Research: Space Physics</i> , <b>2014</b> , 119, 6313-6326	2.6	10
31	Linear and Nonlinear Growth of Magnetospheric Whistler Mode Waves. <i>Geophysical Monograph Series</i> , <b>2013</b> , 265-280	1.1	10
30	Energetic Proton Spectra Measured by the Van Allen Probes. <i>Journal of Geophysical Research: Space Physics</i> , <b>2017</b> , 122, 10,129	2.6	9
29	Resonance zones for electron interaction with plasma waves in the Earth's dipole magnetosphere. II. Evaluation for oblique chorus, hiss, electromagnetic ion cyclotron waves, and magnetosonic waves. <i>Physics of Plasmas</i> , <b>2010</b> , 17, 042903	2.1	9
28	Plasma Wave Observations at Earth, Jupiter, and Saturn. <i>Geophysical Monograph Series</i> , <b>2013</b> , 415-430	1.1	8
27	Resonance zones for electron interaction with plasma waves in the Earth's dipole magnetosphere. I. Evaluation for field-aligned chorus, hiss, and electromagnetic ion cyclotron waves. <i>Physics of Plasmas</i> , <b>2010</b> , 17, 042902	2.1	8
26	Excitation of magnetosonic waves in the undisturbed solar wind. <i>Geophysical Research Letters</i> , <b>1996</b> , 23, 2557-2560	4.9	8
25	Statistical Distributions of Dayside ECH Waves Observed by MMS. <i>Geophysical Research Letters</i> , <b>2018</b> , 45, 12,730	4.9	8
24	Non-stormtime injection of energetic particles into the slot-region between Earth's inner and outer electron radiation belts as observed by STSAT-1 and NOAA-POES. <i>Geophysical Research Letters</i> , <b>2010</b> , 37, n/a-n/a	4.9	7
23	Correction to Formation of power-law energy spectra in space plasmas by stochastic acceleration due to whistler-mode waves. <i>Geophysical Research Letters</i> , <b>1999</b> , 26, 181-183	4.9	7
22	On the existence of a Lorenz Strange Attractor in magnetospheric convection dynamics. <i>Geophysical Research Letters</i> , <b>1992</b> , 19, 1899-1902	4.9	7
21	State estimation of linear dynamical systems under bounded control. <i>Journal of Optimization Theory and Applications</i> , <b>1992</b> , 72, 299-318	1.6	7
20	Hot Plasma Effects on the Pitch-angle Scattering Rates of Radiation Belt Electrons Due to Plasmaspheric Hiss. <i>Astrophysical Journal</i> , <b>2020</b> , 896, 118	4.7	6
19	Approximation techniques in complex reaction kinetics. <i>International Journal of Chemical Kinetics</i> , <b>1987</b> , 19, 553-570	1.4	6
18	Limitation of energetic ring current ion spectra. <i>Journal of Geophysical Research: Space Physics</i> , <b>2015</b> , 120, 7374-7389	2.6	5

17	Effects of Polarization Reversal on the Pitch Angle Scattering of Radiation Belt Electrons and Ring Current Protons by EMIC Waves. <i>Geophysical Research Letters</i> , <b>2020</b> , 47, e2020GL089718	4.9	5
16	Nonlinear Coupling Between Whistler-Mode Chorus and Electron Cyclotron Harmonic Waves in the Magnetosphere. <i>Geophysical Research Letters</i> , <b>2018</b> , 45, 12,685	4.9	5
15	Particle Simulation of the Generation of Plasmaspheric Hiss. <i>Journal of Geophysical Research: Space Physics</i> , <b>2020</b> , 125, e2020JA027973	2.6	4
14	Empirical Loss Timescales of Slot Region Electrons due to Plasmaspheric Hiss Based on Van Allen Probes Observations. <i>Journal of Geophysical Research: Space Physics</i> , <b>2021</b> , 126, e2020JA029057	2.6	4
13	NASA's Radiation Belt Storm Probes Mission: From Concept to Reality. <i>Geophysical Monograph Series</i> , <b>2013</b> , 93-102	1.1	3
12	Recent Advances in Understanding the Diffuse Auroral Precipitation: The Role of Resonant Wave-Particle Interactions. <i>Geophysical Monograph Series</i> , <b>2013</b> , 291-302	1.1	3
11	Finite-beta effects on quasi-linear diffusion coefficients. <i>Journal of Geophysical Research</i> , <b>2011</b> , 116, n/a-n/a		3
10	Effects of Superthermal Plasmas on the Linear Growth of Multiband EMIC Waves. <i>Astrophysical Journal</i> , <b>2020</b> , 899, 43	4.7	3
9	Influence of Kappa Distributions on the Whistler Mode Instability. <i>Journal of Geophysical Research: Space Physics</i> , <b>2021</b> , 126, e2020JA028276	2.6	3
8	Spectral representation of the isotropic Coulomb collisional operator. <i>Journal of Plasma Physics</i> , <b>1997</b> , 58, 475-484	2.7	2
7	Outer ellipsoidal approximations of the reachable set at infinity for linear systems. <i>Journal of Optimization Theory and Applications</i> , <b>1996</b> , 89, 157-173	1.6	2
6	Generation of Electron Acoustic Waves in the Topside Ionosphere From Coupling With Kinetic Alfvén Waves: A New Electron Energization Mechanism. <i>Geophysical Research Letters</i> , <b>2018</b> , 45, 5299-5304	4.9	1
5	State of the art in radiation belt research. <i>Eos</i> , <b>2011</b> , 92, 457-457	1.5	1
4	Spectral Analysis of the Flow of a Neutralized Electron Beam. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , <b>1997</b> , 07, 1075-1101	2	1
3	Comment on Evolution of Langmuir soliton caused by resonant emission of ion sound wave [Phys. Plasmas 5, 3487 (1998)]. <i>Physics of Plasmas</i> , <b>1999</b> , 6, 3721-3723	2.1	1
2	The Axial Double Probe and Fields Signal Processing for the MMS Mission <b>2016</b> , 199, 167		1
1	Energy-dependent Boundaries of Earth's Radiation Belt Electron Slot Region. <i>Astrophysical Journal</i> , <b>2021</b> , 922, 246	4.7	0