

# Danny Summers

## List of Publications by Year in descending order

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106  
papers

9,869  
citations

53660

45  
h-index

34900

98  
g-index

107  
all docs

107  
docs citations

107  
times ranked

2661  
citing authors

#	ARTICLE	IF	CITATIONS
1	Influence of Kappa Distributions on the Whistler Mode Instability. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA028276.	0.8	6
2	Empirical Loss Timescales of Slot Region Electrons due to Plasmaspheric Hiss Based on Van Allen Probes Observations. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA029057.	0.8	10
3	Energy-dependent Boundaries of Earth's Radiation Belt Electron Slot Region. Astrophysical Journal, 2021, 922, 246.	1.6	2
4	Particle Simulation of the Generation of Plasmaspheric Hiss. Journal of Geophysical Research: Space Physics, 2020, 125, e2020JA027973.	0.8	8
5	Effects of Polarization Reversal on the Pitch Angle Scattering of Radiation Belt Electrons and Ring Current Protons by EMIC Waves. Geophysical Research Letters, 2020, 47, e2020GL089718.	1.5	15
6	Hot Plasma Effects on the Pitch-angle Scattering Rates of Radiation Belt Electrons Due to Plasmaspheric Hiss. Astrophysical Journal, 2020, 896, 118.	1.6	12
7	Effects of Superthermal Plasmas on the Linear Growth of Multiband EMIC Waves. Astrophysical Journal, 2020, 899, 43.	1.6	7
8	Statistical Properties of Hiss in Plasmaspheric Plumes and Associated Scattering Losses of Radiation Belt Electrons. Geophysical Research Letters, 2019, 46, 5670-5680.	1.5	32
9	Dependence of Whistler Mode Chorus Wave Generation on the Maximum Linear Growth Rate. Journal of Geophysical Research: Space Physics, 2019, 124, 4114-4124.	0.8	12
10	Sensitivity of EMIC Wave-Driven Scattering Loss of Ring Current Protons to Wave Normal Angle Distribution. Geophysical Research Letters, 2019, 46, 590-598.	1.5	28
11	Hot Plasma Effects on the Cyclotron-Resonant Pitch-Angle Scattering Rates of Radiation Belt Electrons Due to EMIC Waves. Geophysical Research Letters, 2018, 45, 21-30.	1.5	66
12	Electron Scattering by Plasmaspheric Hiss in a Nightside Plume. Geophysical Research Letters, 2018, 45, 4618-4627.	1.5	29
13	Statistical Distributions of Dayside ECH Waves Observed by MMS. Geophysical Research Letters, 2018, 45, 12,730.	1.5	16
14	Nonlinear Coupling Between Whistler-Mode Chorus and Electron Cyclotron Harmonic Waves in the Magnetosphere. Geophysical Research Letters, 2018, 45, 12,685.	1.5	15
15	Fine Structure of Whistler Mode Hiss in Plasmaspheric Plumes Observed by the Van Allen Probes. Journal of Geophysical Research: Space Physics, 2018, 123, 9055-9064.	0.8	20
16	Generation of Electron Acoustic Waves in the Topside Ionosphere From Coupling With Kinetic Alfvén Waves: A New Electron Energization Mechanism. Geophysical Research Letters, 2018, 45, 5299-5304.	1.5	8
17	Bounce resonance scattering of radiation belt electrons by H <sup>+</sup> band EMIC waves. Journal of Geophysical Research: Space Physics, 2017, 122, 1702-1713.	0.8	44
18	Energetic Proton Spectra Measured by the Van Allen Probes. Journal of Geophysical Research: Space Physics, 2017, 122, 10,129.	0.8	12

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19	Bounce Resonance Scattering of Radiation Belt Electrons by Low-Frequency Hiss: Comparison With Cyclotron and Landau Resonances. <i>Geophysical Research Letters</i> , 2017, 44, 9547-9554.	1.5	28
20	Formation of energetic electron butterfly distributions by magnetosonic waves via Landau resonance. <i>Geophysical Research Letters</i> , 2016, 43, 3009-3016.	1.5	88
21	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> , 2016, 121, 5233-5249.	0.8	11
22	Observational evidence of the nonlinear wave growth theory of plasmaspheric hiss. <i>Geophysical Research Letters</i> , 2016, 43, 10,040.	1.5	26
23	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> , 2016, 121, 1078-1090.	0.8	26
24	The FIELDS Instrument Suite for Solar Probe Plus. <i>Space Science Reviews</i> , 2016, 204, 49-82.	3.7	521
25	The Axial Double Probe and Fields Signal Processing for the MMS Mission. <i>Space Science Reviews</i> , 2016, 199, 167-188.	3.7	489
26	The Axial Double Probe and Fields Signal Processing for the MMS Mission. , 2016, 199, 167.		1
27	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> , 2015, 120, 9545-9562.	0.8	98
28	Nonlinear wave growth theory of coherent hiss emissions in the plasmasphere. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 7642-7657.	0.8	52
29	Electromagnetic ion cyclotron waves in the Earth's magnetosphere with a $\kappa$ -Maxwellian particle distribution. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 8426-8439.	0.8	48
30	Subpacket structures in EMIC rising tone emissions observed by the THEMIS probes. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 7318-7330.	0.8	35
31	Relativistic electron precipitation induced by EMIC-triggered emissions in a dipole magnetosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 4384-4399.	0.8	48
32	Limitation of energetic ring current ion spectra. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 7374-7389.	0.8	5
33	Limiting energy spectrum of an electron radiation belt. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 6313-6326.	0.8	17
34	Fine structure of plasmaspheric hiss. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 9134-9149.	0.8	74
35	Effects of cold electron number density variation on whistler-mode wave growth. <i>Annales Geophysicae</i> , 2014, 32, 889-898.	0.6	12
36	Parameter spaces for linear and nonlinear whistler-mode waves. <i>Physics of Plasmas</i> , 2013, 20, .	0.7	24

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37	Recent Advances in Understanding the Diffuse Auroral Precipitation: The Role of Resonant Wave-Particle Interactions. Geophysical Monograph Series, 2013, , 291-302.	0.1	6
38	Energetic electron fluxes at Saturn from Cassini observations. Journal of Geophysical Research, 2012, 117, .	3.3	23
39	Nonlinear spatiotemporal evolution of whistler mode chorus waves in Earth's inner magnetosphere. Journal of Geophysical Research, 2012, 117, .	3.3	42
40	Warm plasma effects on electromagnetic ion cyclotron wave MeV electron interactions in the magnetosphere. Journal of Geophysical Research, 2011, 116, .	3.3	81
41	State of the art in radiation belt research. Eos, 2011, 92, 457-457.	0.1	2
42	Effects of nonlinear wave growth on extreme radiation belt electron fluxes. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	27
43	Finite-beta effects on quasi-linear diffusion coefficients. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	3
44	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. Physics of Plasmas, 2010, 17, 042902.	0.7	8
45	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. Physics of Plasmas, 2010, 17, 042903.	0.7	9
46	Microburst precipitation of energetic electrons associated with chorus wave generation. Geophysical Research Letters, 2010, 37, .	1.5	84
47	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. Geophysical Research Letters, 2010, 37, .	1.5	8
48	Self-consistent particle simulation of whistler mode triggered emissions. Journal of Geophysical Research, 2010, 115, .	3.3	35
49	Nonlinear mechanisms of lower-band and upper-band VLF chorus emissions in the magnetosphere. Journal of Geophysical Research, 2009, 114, .	3.3	253
50	Limit on stably trapped particle fluxes in planetary magnetospheres. Journal of Geophysical Research, 2009, 114, .	3.3	81
51	Relativistic turning acceleration of radiation belt electrons by whistler mode chorus. Journal of Geophysical Research, 2008, 113, .	3.3	59
52	Theory and simulation of the generation of whistler-mode chorus. Journal of Geophysical Research, 2008, 113, .	3.3	440
53	Electron scattering by whistler-mode ELF hiss in plasmaspheric plumes. Journal of Geophysical Research, 2008, 113, .	3.3	175
54	Rapid energization of radiation belt electrons by nonlinear wave trapping. Annales Geophysicae, 2008, 26, 3451-3456.	0.6	39

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55	Timescales for radiation belt electron acceleration and loss due to resonant wave-particle interactions: 1. Theory. <i>Journal of Geophysical Research</i> , 2007, 112, n/a-n/a.	3.3	211
56	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> , 2007, 112, n/a-n/a.	3.3	391
57	Relativistic turning acceleration of resonant electrons by coherent whistler mode waves in a dipole magnetic field. <i>Journal of Geophysical Research</i> , 2007, 112, n/a-n/a.	3.3	208
58	Ultra-relativistic acceleration of electrons in planetary magnetospheres. <i>Geophysical Research Letters</i> , 2007, 34, .	1.5	102
59	Estimating relativistic electron pitch angle scattering rates using properties of the electromagnetic ion cyclotron wave spectrum. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	39
60	Energetic outer zone electron loss timescales during low geomagnetic activity. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	170
61	Dynamics of high-energy electrons interacting with whistler mode chorus emissions in the magnetosphere. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	106
62	Bounce-averaged diffusion coefficients for field-aligned chorus waves. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	115
63	Pitch-angle scattering rates in planetary magnetospheres. <i>Journal of Plasma Physics</i> , 2005, 71, 237-250.	0.7	15
64	The influence of wave-particle interactions on relativistic electron dynamics during storms. <i>Geophysical Monograph Series</i> , 2005, , 101-112.	0.1	56
65	Timescale for MeV electron microburst loss during geomagnetic storms. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	296
66	Comparative study of outer-zone relativistic electrons observed by Akebono and CRRES. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	15
67	Quasi-linear diffusion coefficients for field-aligned electromagnetic waves with applications to the magnetosphere. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	236
68	Substorm dependence of plasmaspheric hiss. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	281
69	Competition between acceleration and loss mechanisms of relativistic electrons during geomagnetic storms. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	62
70	Relativistic electron pitch-angle scattering by electromagnetic ion cyclotron waves during geomagnetic storms. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	616
71	Statistical analysis of relativistic electron energies for cyclotron resonance with EMIC waves observed on CRRES. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	380
72	Evidence for chorus-driven electron acceleration to relativistic energies from a survey of geomagnetically disturbed periods. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	234

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73	Model of the energization of outer-zone electrons by whistler-mode chorus during the October 9, 1990 geomagnetic storm. <i>Geophysical Research Letters</i> , 2002, 29, 27-1-27-4.	1.5	173
74	Evidence for acceleration of outer zone electrons to relativistic energies by whistler mode chorus. <i>Annales Geophysicae</i> , 2002, 20, 967-979.	0.6	100
75	A model for generating relativistic electrons in the Earth's inner magnetosphere based on gyroresonant wave-particle interactions. <i>Journal of Geophysical Research</i> , 2000, 105, 2625-2639.	3.3	177
76	Correction to "Formation of power-law energy spectra in space plasmas by stochastic acceleration due to whistler-mode waves". <i>Geophysical Research Letters</i> , 1999, 26, 181-183.	1.5	8
77	Correction to "Formation of power-law energy spectra in space plasmas by stochastic acceleration due to whistler-mode waves". <i>Geophysical Research Letters</i> , 1999, 26, 1121-1124.	1.5	35
78	Comment on "Evolution of Langmuir soliton caused by resonant emission of ion sound wave" [ <i>Phys. Plasmas</i> 5, 3487 (1998)]. <i>Physics of Plasmas</i> , 1999, 6, 3721-3723.	0.7	1
79	Instability of electromagnetic R-mode waves in a relativistic plasma. <i>Physics of Plasmas</i> , 1998, 5, 2489-2497.	0.7	99
80	Formation of power-law energy spectra in space plasmas by stochastic acceleration due to whistler-mode waves. <i>Geophysical Research Letters</i> , 1998, 25, 4099-4102.	1.5	110
81	Relativistic theory of wave-particle resonant diffusion with application to electron acceleration in the magnetosphere. <i>Journal of Geophysical Research</i> , 1998, 103, 20487-20500.	3.3	737
82	Spectral Analysis of the Flow of a Neutralized Electron Beam. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 1997, 07, 1075-1101.	0.7	1
83	Spectral representation of the isotropic Coulomb collisional operator. <i>Journal of Plasma Physics</i> , 1997, 58, 475-484.	0.7	2
84	Evaluation of the modified plasma dispersion function for half-angle integral indices. <i>Physics of Plasmas</i> , 1996, 3, 2496-2501.	0.7	36
85	Excitation of magnetosonic waves in the undisturbed solar wind. <i>Geophysical Research Letters</i> , 1996, 23, 2557-2560.	1.5	8
86	Parametric study of electromagnetic ion cyclotron instability in the Earth's magnetosphere. <i>Journal of Geophysical Research</i> , 1996, 101, 15467-15474.	3.3	35
87	Growth and damping of oblique electromagnetic ion cyclotron waves in the Earth's magnetosphere. <i>Journal of Geophysical Research</i> , 1996, 101, 15457-15466.	3.3	31
88	Outer ellipsoidal approximations of the reachable set at infinity for linear systems. <i>Journal of Optimization Theory and Applications</i> , 1996, 89, 157-173.	0.8	3
89	Computer simulations of the chaotic dynamics of the Pierce beam-plasma system. <i>Physics of Plasmas</i> , 1996, 3, 177-191.	0.7	46
90	Plasma microinstabilities driven by loss-cone distributions. <i>Journal of Plasma Physics</i> , 1995, 53, 293-315.	0.7	65

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91	Calculation of the dielectric tensor for a generalized Lorentzian ( $\kappa$ ) distribution function. <i>Physics of Plasmas</i> , 1994, 1, 2012-2025.	0.7	112
92	Electromagnetic ion-cyclotron instability in space plasmas. <i>Journal of Geophysical Research</i> , 1993, 98, 17475-17484.	3.3	68
93	Ion-acoustic wave instability driven by drifting electrons in a generalized Lorentzian distribution. <i>Journal of Plasma Physics</i> , 1992, 47, 445-464.	0.7	66
94	On the existence of a Lorenz Strange Attractor in magnetospheric convection dynamics. <i>Geophysical Research Letters</i> , 1992, 19, 1899-1902.	1.5	8
95	State estimation of linear dynamical systems under bounded control. <i>Journal of Optimization Theory and Applications</i> , 1992, 72, 299-318.	0.8	10
96	A new tool for analyzing microinstabilities in space plasmas modeled by a generalized Lorentzian ( $\kappa$ ) distribution. <i>Journal of Geophysical Research</i> , 1992, 97, 16827-16832.	3.3	94
97	Landau damping in space plasmas. <i>Physics of Fluids B</i> , 1991, 3, 2117-2123.	1.7	138
98	The modified plasma dispersion function. <i>Physics of Fluids B</i> , 1991, 3, 1835-1847.	1.7	645
99	Optimal technique for estimating the reachable set of a controlled $n$ -dimensional linear system. <i>International Journal of Systems Science</i> , 1990, 21, 675-692.	3.7	15
100	Approximation techniques in complex reaction kinetics. <i>International Journal of Chemical Kinetics</i> , 1987, 19, 553-570.	1.0	6
101	Generation Processes of Whistler Mode Chorus Emissions: Current Status of Nonlinear Wave Growth Theory. <i>Geophysical Monograph Series</i> , 0, , 243-254.	0.1	56
102	Linear and Nonlinear Growth of Magnetospheric Whistler Mode Waves. <i>Geophysical Monograph Series</i> , 0, , 265-280.	0.1	10
103	NASA's Radiation Belt Storm Probes Mission: From Concept to Reality. <i>Geophysical Monograph Series</i> , 0, , 93-102.	0.1	3
104	The Energization and Radiation in Geospace (ERG) Project. <i>Geophysical Monograph Series</i> , 0, , 103-116.	0.1	33
105	Aspects of Nonlinear Wave-Particle Interactions. <i>Geophysical Monograph Series</i> , 0, , 255-264.	0.1	72
106	Plasma Wave Observations at Earth, Jupiter, and Saturn. <i>Geophysical Monograph Series</i> , 0, , 415-430.	0.1	12