Richard Thorne

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#	Paper	IF	Citations
177	The Electric and Magnetic Field Instrument Suite and Integrated Science (EMFISIS) on RBSP. <i>Space Science Reviews</i> , 2013 , 179, 127-181	7.5	760
176	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		657
175	Pitch-angle diffusion of radiation belt electrons within the plasmasphere. <i>Journal of Geophysical Research</i> , 1972 , 77, 3455-3474		616
174	Relativistic electron pitch-angle scattering by electromagnetic ion cyclotron waves during geomagnetic storms. <i>Journal of Geophysical Research</i> , 2003 , 108,		532
173	Timescale for radiation belt electron acceleration by whistler mode chorus waves. <i>Journal of Geophysical Research</i> , 2005 , 110,		501
172	Radiation belt dynamics: The importance of wave-particle interactions. <i>Geophysical Research Letters</i> , 2010 , 37, n/a-n/a	4.9	486
171	Rapid local acceleration of relativistic radiation-belt electrons by magnetospheric chorus. <i>Nature</i> , 2013 , 504, 411-4	50.4	481
170	Potential waves for relativistic electron scattering and stochastic acceleration during magnetic storms. <i>Geophysical Research Letters</i> , 1998 , 25, 3011-3014	4.9	462
169	Equilibrium structure of radiation belt electrons. <i>Journal of Geophysical Research</i> , 1973 , 78, 2142-2149		441
168	Turbulent loss of ring current protons. <i>Journal of Geophysical Research</i> , 1970 , 75, 4699-4709		440
167	The terrestrial ring current: Origin, formation, and decay. <i>Reviews of Geophysics</i> , 1999 , 37, 407-438	23.1	430
166	Wave acceleration of electrons in the Van Allen radiation belts. <i>Nature</i> , 2005 , 437, 227-30	50.4	429
165	Electron scattering loss in Earth's inner magnetosphere: 1. Dominant physical processes. <i>Journal of Geophysical Research</i> , 1998 , 103, 2385-2396		385
164	Science Goals and Overview of the Radiation Belt Storm Probes (RBSP) Energetic Particle, Composition, and Thermal Plasma (ECT) Suite on NASAE Van Allen Probes Mission. <i>Space Science Reviews</i> , 2013 , 179, 311-336	7.5	383
163	Electron acceleration in the heart of the Van Allen radiation belts. <i>Science</i> , 2013 , 341, 991-4	33.3	379
162	Plasmaspheric hiss. <i>Journal of Geophysical Research</i> , 1973 , 78, 1581-1596		376
161	Scattering by chorus waves as the dominant cause of diffuse auroral precipitation. <i>Nature</i> , 2010 , 467, 943-6	50.4	347

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160	Statistical analysis of relativistic electron energies for cyclotron resonance with EMIC waves observed on CRRES. <i>Journal of Geophysical Research</i> , 2003 , 108,		342	
159	Relativistic electron precipitation during magnetic storm main phase. <i>Journal of Geophysical Research</i> , 1971 , 76, 4446-4453		340	
158	Electron acceleration in the Van Allen radiation belts by fast magnetosonic waves. <i>Geophysical Research Letters</i> , 2007 , 34,	4.9	296	
157	Outward radial diffusion driven by losses at magnetopause. <i>Journal of Geophysical Research</i> , 2006 , 111,		293	
156	Dynamic evolution of energetic outer zone electrons due to wave-particle interactions during storms. <i>Journal of Geophysical Research</i> , 2007 , 112, n/a-n/a		286	
155	Resonant scattering of plasma sheet electrons by whistler-mode chorus: Contribution to diffuse auroral precipitation. <i>Geophysical Research Letters</i> , 2008 , 35,	4.9	274	
154	The unexpected origin of plasmaspheric hiss from discrete chorus emissions. <i>Nature</i> , 2008 , 452, 62-6	50.4	269	
153	Timescale for MeV electron microburst loss during geomagnetic storms. <i>Journal of Geophysical Research</i> , 2005 , 110,		260	
152	Substorm dependence of plasmaspheric hiss. Journal of Geophysical Research, 2004, 109,		249	
151	Global distribution of whistler-mode chorus waves observed on the THEMIS spacecraft. <i>Geophysical Research Letters</i> , 2009 , 36,	4.9	245	
150	Favored regions for chorus-driven electron acceleration to relativistic energies in the Earth's outer radiation belt. <i>Geophysical Research Letters</i> , 2003 , 30,	4.9	231	
149	Modeling ring current proton precipitation by electromagnetic ion cyclotron waves during the May 14🛮 6, 1997, storm. <i>Journal of Geophysical Research</i> , 2001 , 106, 7-22		228	
148	Identifying the driver of pulsating aurora. <i>Science</i> , 2010 , 330, 81-4	33.3	208	
147	On the preferred source location for the convective amplification of ion cyclotron waves. <i>Journal of Geophysical Research</i> , 1993 , 98, 9233		208	
146	Evidence for chorus-driven electron acceleration to relativistic energies from a survey of geomagnetically disturbed periods. <i>Journal of Geophysical Research</i> , 2003 , 108,		205	
145	Global distribution of wave amplitudes and wave normal angles of chorus waves using THEMIS wave observations. <i>Journal of Geophysical Research</i> , 2011 , 116, n/a-n/a		196	
144	Global model of lower band and upper band chorus from multiple satellite observations. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		188	
143	Jupiter's interior and deep atmosphere: The initial pole-to-pole passes with the Juno spacecraft. <i>Science</i> , 2017 , 356, 821-825	33.3	180	

142	Outer zone relativistic electron acceleration associated with substorm-enhanced whistler mode chorus. <i>Journal of Geophysical Research</i> , 2002 , 107, SMP 29-1		180
141	A long-lived relativistic electron storage ring embedded in Earth's outer Van Allen belt. <i>Science</i> , 2013 , 340, 186-90	33.3	179
140	Nonlinear interaction of energetic electrons with large amplitude chorus. <i>Geophysical Research Letters</i> , 2008 , 35,	4.9	169
139	Parasitic pitch angle diffusion of radiation belt particles by ion cyclotron waves. <i>Journal of Geophysical Research</i> , 1972 , 77, 5608-5616		162
138	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	4.9	157
137	Source and seed populations for relativistic electrons: Their roles in radiation belt changes. <i>Journal of Geophysical Research: Space Physics</i> , 2015 , 120, 7240-7254	2.6	156
136	An observation linking the origin of plasmaspheric hiss to discrete chorus emissions. <i>Science</i> , 2009 , 324, 775-8	33.3	156
135	Electron scattering by whistler-mode ELF hiss in plasmaspheric plumes. <i>Journal of Geophysical Research</i> , 2008 , 113, n/a-n/a		154
134	Energetic outer zone electron loss timescales during low geomagnetic activity. <i>Journal of Geophysical Research</i> , 2006 , 111,		152
133	Resonant scattering and resultant pitch angle evolution of relativistic electrons by plasmaspheric hiss. <i>Journal of Geophysical Research: Space Physics</i> , 2013 , 118, 7740-7751	2.6	150
132	Radiation belt electron acceleration by chorus waves during the 17 March 2013 storm. <i>Journal of Geophysical Research: Space Physics</i> , 2014 , 119, 4681-4693	2.6	146
131	Magnetospheric Science Objectives of the Juno Mission. <i>Space Science Reviews</i> , 2017 , 213, 219-287	7.5	138
130	Evolution and slow decay of an unusual narrow ring of relativistic electrons near L \sim 3.2 following the September 2012 magnetic storm. <i>Geophysical Research Letters</i> , 2013 , 40, 3507-3511	4.9	137
129	An impenetrable barrier to ultrarelativistic electrons in the Van Allen radiation belts. <i>Nature</i> , 2014 , 515, 531-4	50.4	135
128	Electron scattering loss in Earth's inner magnetosphere: 2. Sensitivity to model parameters. <i>Journal of Geophysical Research</i> , 1998 , 103, 2397-2407		135
127	Global simulation of magnetosonic wave instability in the storm time magnetosphere. <i>Journal of Geophysical Research</i> , 2010 , 115, n/a-n/a		134
126	Statistical properties of plasmaspheric hiss derived from Van Allen Probes data and their effects on radiation belt electron dynamics. <i>Journal of Geophysical Research: Space Physics</i> , 2015 , 120, 3393-3405	2.6	132
125	Evolution of energetic electron pitch angle distributions during storm time electron acceleration to megaelectronvolt energies. <i>Journal of Geophysical Research</i> , 2003 , 108, SMP 11-1		128

124	Rapid scattering of radiation belt electrons by storm-time EMIC waves. <i>Geophysical Research Letters</i> , 2010 , 37, n/a-n/a	4.9	123	
123	Constructing the global distribution of chorus wave intensity using measurements of electrons by the POES satellites and waves by the Van Allen Probes. <i>Geophysical Research Letters</i> , 2013 , 40, 4526-45	53 2 .9	119	
122	Global distribution of equatorial magnetosonic waves observed by THEMIS. <i>Geophysical Research Letters</i> , 2013 , 40, 1895-1901	4.9	115	
121	Modulation of electromagnetic ion cyclotron instability due to interaction with ring current O+ during magnetic storms. <i>Journal of Geophysical Research</i> , 1997 , 102, 14155-14163		113	
120	Convective instabilities of electromagnetic ion cyclotron waves in the outer magnetosphere. <i>Journal of Geophysical Research</i> , 1994 , 99, 17259		113	
119	Parameterization of radiation belt electron loss timescales due to interactions with chorus waves. <i>Geophysical Research Letters</i> , 2007 , 34,	4.9	112	
118	Electron pitch angle diffusion by electrostatic electron cyclotron harmonic waves: The origin of pancake distributions. <i>Journal of Geophysical Research</i> , 2000 , 105, 5391-5402		106	
117	An unusual enhancement of low-frequency plasmaspheric hiss in the outer plasmasphere associated with substorm-injected electrons. <i>Geophysical Research Letters</i> , 2013 , 40, 3798-3803	4.9	105	
116	Global distributions of suprathermal electrons observed on THEMIS and potential mechanisms for access into the plasmasphere. <i>Journal of Geophysical Research</i> , 2010 , 115, n/a-n/a		104	
115	Gradual diffusion and punctuated phase space density enhancements of highly relativistic electrons: Van Allen Probes observations. <i>Geophysical Research Letters</i> , 2014 , 41, 1351-1358	4.9	103	
114	Origins of plasmaspheric hiss. Journal of Geophysical Research, 2006, 111,		102	
113	Modeling the propagation characteristics of chorus using CRRES suprathermal electron fluxes. <i>Journal of Geophysical Research</i> , 2007 , 112, n/a-n/a		96	
112	Resonant scattering of energetic electrons by unusual low-frequency hiss. <i>Geophysical Research Letters</i> , 2014 , 41, 1854-1861	4.9	95	
111	Simulation of EMIC wave excitation in a model magnetosphere including structured high-density plumes. <i>Journal of Geophysical Research</i> , 2009 , 114, n/a-n/a		95	
110	Jupiter's magnetosphere and aurorae observed by the Juno spacecraft during its first polar orbits. <i>Science</i> , 2017 , 356, 826-832	33.3	93	
109	Evaluation of whistler-mode chorus intensification on the nightside during an injection event observed on the THEMIS spacecraft. <i>Journal of Geophysical Research</i> , 2009 , 114, n/a-n/a		93	
108	Origins of the Earth Diffuse Auroral Precipitation. Space Science Reviews, 2016, 200, 205-259	7.5	92	
107	The contribution of ion-cyclotron waves to electron heating and SAR-arc excitation near the storm-time plasmapause. <i>Geophysical Research Letters</i> , 1992 , 19, 417-420	4.9	92	

106	Characteristics of the Poynting flux and wave normal vectors of whistler-mode waves observed on THEMIS. <i>Journal of Geophysical Research: Space Physics</i> , 2013 , 118, 1461-1471	2.6	89
105	Ultra-relativistic electrons in Jupiter's radiation belts. <i>Nature</i> , 2002 , 415, 987-91	50.4	89
104	The controlling effect of ion temperature on EMIC wave excitation and scattering. <i>Geophysical Research Letters</i> , 2011 , 38, n/a-n/a	4.9	85
103	Typical properties of rising and falling tone chorus waves. <i>Geophysical Research Letters</i> , 2011 , 38, n/a-n,	/a _{4.9}	84
102	Competing source and loss mechanisms due to wave-particle interactions in Earth's outer radiation belt during the 30 September to 3 October 2012 geomagnetic storm. <i>Journal of Geophysical Research: Space Physics</i> , 2014 , 119, 1960-1979	2.6	83
101	Electron scattering by magnetosonic waves in the inner magnetosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2016 , 121, 274-285	2.6	82
100	Simulations of pitch angle scattering of relativistic electrons with MLT-dependent diffusion coefficients. <i>Journal of Geophysical Research</i> , 2009 , 114, n/a-n/a		8o
99	Refilling of the slot region between the inner and outer electron radiation belts during geomagnetic storms. <i>Journal of Geophysical Research</i> , 2007 , 112, n/a-n/a		77
98	Magnetosonic wave excitation by ion ring distributions in the Earth's inner magnetosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2014 , 119, 844-852	2.6	74
97	Evolution of electron pitch angle distributions following injection from the plasma sheet. <i>Journal of Geophysical Research</i> , 2011 , 116, n/a-n/a		74
96	Effects of amplitude modulation on nonlinear interactions between electrons and chorus waves. <i>Geophysical Research Letters</i> , 2012 , 39, n/a-n/a	4.9	73
95	Formation of energetic electron butterfly distributions by magnetosonic waves via Landau resonance. <i>Geophysical Research Letters</i> , 2016 , 43, 3009-3016	4.9	73
94	New chorus wave properties near the equator from Van Allen Probes wave observations. <i>Geophysical Research Letters</i> , 2016 , 43, 4725-4735	4.9	70
93	Gyro-resonant electron acceleration at Jupiter. <i>Nature Physics</i> , 2008 , 4, 301-304	16.2	68
92	Characteristics of hiss-like and discrete whistler-mode emissions. <i>Geophysical Research Letters</i> , 2012 , 39,	4.9	67
91	Modeling ring current ion and electron dynamics and plasma instabilities during a high-speed stream driven storm. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		65
90	Modeling the wave normal distribution of chorus waves. <i>Journal of Geophysical Research: Space Physics</i> , 2013 , 118, 1074-1088	2.6	65
89	Three-dimensional ray tracing of VLF waves in a magnetospheric environment containing a plasmaspheric plume. <i>Geophysical Research Letters</i> , 2009 , 36,	4.9	65

88	Energy transfer between energetic ring current H+ and O+ by electromagnetic ion cyclotron waves. Journal of Geophysical Research, 1994 , 99, 17275		65
87	Amplification of whistler-mode hiss inside the plasmasphere. <i>Geophysical Research Letters</i> , 2012 , 39, n/a-n/a	4.9	64
86	Modeling inward diffusion and slow decay of energetic electrons in the Earth's outer radiation belt. <i>Geophysical Research Letters</i> , 2015 , 42, 987-995	4.9	63
85	Microscopic plasma processes in the Jovian magnetosphere 1983 , 454-488		63
84	Perpendicular propagation of magnetosonic waves. <i>Geophysical Research Letters</i> , 2012 , 39, n/a-n/a	4.9	61
83	Comparison of bounce-averaged quasi-linear diffusion coefficients for parallel propagating whistler mode waves with test particle simulations. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		60
82	Unraveling the excitation mechanisms of highly oblique lower band chorus waves. <i>Geophysical Research Letters</i> , 2016 , 43, 8867-8875	4.9	58
81	Modeling the properties of plasmaspheric hiss: 1. Dependence on chorus wave emission. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		58
80	Modeling the wave power distribution and characteristics of plasmaspheric hiss. <i>Journal of Geophysical Research</i> , 2011 , 116, n/a-n/a		58
79	Nonlinear bounce resonances between magnetosonic waves and equatorially mirroring electrons. Journal of Geophysical Research: Space Physics, 2015 , 120, 6514-6527	2.6	57
78	Evidence of stronger pitch angle scattering loss caused by oblique whistler-mode waves as compared with quasi-parallel waves. <i>Geophysical Research Letters</i> , 2014 , 41, 6063-6070	4.9	54
77	A new diffusion matrix for whistler mode chorus waves. <i>Journal of Geophysical Research: Space Physics</i> , 2013 , 118, 6302-6318	2.6	54
76	Comparison of quasilinear diffusion coefficients for parallel propagating whistler mode waves with test particle simulations. <i>Geophysical Research Letters</i> , 2011 , 38, n/a-n/a	4.9	54
75	Landau damping of magnetospherically reflected whistlers. <i>Journal of Geophysical Research</i> , 1994 , 99, 17249		54
74	Quantitative Evaluation of Radial Diffusion and Local Acceleration Processes During GEM Challenge Events. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 1938-1952	2.6	53
73	A novel technique to construct the global distribution of whistler mode chorus wave intensity using low-altitude POES electron data. <i>Journal of Geophysical Research: Space Physics</i> , 2014 , 119, 5685-5699	2.6	52
72	Modulation of whistler mode chorus waves: 1. Role of compressional Pc4B pulsations. <i>Journal of Geophysical Research</i> , 2011 , 116, n/a-n/a		52
71	Radiation belt electron acceleration during the 17 March 2015 geomagnetic storm: Observations and simulations. <i>Journal of Geophysical Research: Space Physics</i> , 2016 , 121, 5520-5536	2.6	52

70	Magnetosonic wave instability analysis for proton ring distributions observed by the LANL magnetospheric plasma analyzer. <i>Journal of Geophysical Research</i> , 2011 , 116,		51
69	Global statistical evidence for chorus as the embryonic source of plasmaspheric hiss. <i>Geophysical Research Letters</i> , 2013 , 40, 2891-2896	4.9	49
68	Modulation of whistler mode chorus waves: 2. Role of density variations. <i>Journal of Geophysical Research</i> , 2011 , 116, n/a-n/a		47
67	Ray tracing of penetrating chorus and its implications for the radiation belts. <i>Geophysical Research Letters</i> , 2007 , 34,	4.9	47
66	New evidence for generation mechanisms of discrete and hiss-like whistler mode waves. <i>Geophysical Research Letters</i> , 2014 , 41, 4805-4811	4.9	46
65	Diffuse auroral scattering by whistler mode chorus waves: Dependence on wave normal angle distribution. <i>Journal of Geophysical Research</i> , 2011 , 116, n/a-n/a		45
64	Diffuse Jovian aurora influenced by plasma injection from Io. <i>Geophysical Research Letters</i> , 1979 , 6, 649-	-64532	45
63	Direct evidence for EMIC wave scattering of relativistic electrons in space. <i>Journal of Geophysical Research: Space Physics</i> , 2016 , 121, 6620-6631	2.6	44
62	VLF waves from ground-based transmitters observed by the Van Allen Probes: Statistical model and effects on plasmaspheric electrons. <i>Geophysical Research Letters</i> , 2017 , 44, 6483-6491	4.9	43
61	The trapping of equatorial magnetosonic waves in the Earth's outer plasmasphere. <i>Geophysical Research Letters</i> , 2014 , 41, 6307-6313	4.9	41
60	Statistical distribution of EMIC wave spectra: Observations from Van Allen Probes. <i>Geophysical Research Letters</i> , 2016 , 43, 12,348	4.9	40
59	The relationship between the macroscopic state of electrons and the properties of chorus waves observed by the Van Allen Probes. <i>Geophysical Research Letters</i> , 2016 , 43, 7804-7812	4.9	40
58	Solar wind conditions leading to efficient radiation belt electron acceleration: A superposed epoch analysis. <i>Geophysical Research Letters</i> , 2015 , 42, 6906-6915	4.9	39
57	First evidence for chorus at a large geocentric distance as a source of plasmaspheric hiss: Coordinated THEMIS and Van Allen Probes observation. <i>Geophysical Research Letters</i> , 2015 , 42, 241-248	3 4.9	39
56	Characteristic energy range of electron scattering due to plasmaspheric hiss. <i>Journal of Geophysical Research: Space Physics</i> , 2016 , 121, 11,737	2.6	39
55	Properties of Intense Field-Aligned Lower-Band Chorus Waves: Implications for Nonlinear Wave-Particle Interactions. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 5379-5393	2.6	37
54	Modulation of plasmaspheric hiss intensity by thermal plasma density structure. <i>Geophysical Research Letters</i> , 2012 , 39, n/a-n/a	4.9	35
53	Electron Nonlinear Resonant Interaction With Short and Intense Parallel Chorus Wave Packets. Journal of Geophysical Research: Space Physics, 2018, 123, 4979-4999	2.6	35

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52	Simulation of energy-dependent electron diffusion processes in the Earth's outer radiation belt. Journal of Geophysical Research: Space Physics, 2016 , 121, 4217-4231	2.6	34
51	Quantifying hiss-driven energetic electron precipitation: A detailed conjunction event analysis. <i>Geophysical Research Letters</i> , 2014 , 41, 1085-1092	4.9	33
50	The effect of different solar wind parameters upon significant relativistic electron flux dropouts in the magnetosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2015 , 120, 4324-4337	2.6	33
49	Modeling the properties of plasmaspheric hiss: 2. Dependence on the plasma density distribution. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		32
48	Free energy to drive equatorial magnetosonic wave instability at geosynchronous orbit. <i>Journal of Geophysical Research</i> , 2011 , 116, n/a-n/a		32
47	Plasmaspheric hiss overview and relation to chorus. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2009 , 71, 1636-1646	2	32
46	Analytical approximation of transit time scattering due to magnetosonic waves. <i>Geophysical Research Letters</i> , 2015 , 42, 1318-1325	4.9	31
45	The Composition of Plasma inside Geostationary Orbit Based on Van Allen Probes Observations. Journal of Geophysical Research: Space Physics, 2018, 123, 6478-6493	2.6	31
44	Variability of the pitch angle distribution of radiation belt ultrarelativistic electrons during and following intense geomagnetic storms: Van Allen Probes observations. <i>Journal of Geophysical Research: Space Physics</i> , 2015 , 120, 4863-4876	2.6	31
43	Ultrarelativistic electron butterfly distributions created by parallel acceleration due to magnetosonic waves. <i>Journal of Geophysical Research: Space Physics</i> , 2016 , 121, 3212-3222	2.6	31
42	A neural network model of three-dimensional dynamic electron density in the inner magnetosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 9183-9197	2.6	30
41	Nonlinear Electron Interaction With Intense Chorus Waves: Statistics of Occurrence Rates. <i>Geophysical Research Letters</i> , 2019 , 46, 7182-7190	4.9	29
40	Origin of two-band chorus in the radiation belt of Earth. <i>Nature Communications</i> , 2019 , 10, 4672	17.4	29
39	A unified approach to inner magnetospheric state prediction. <i>Journal of Geophysical Research:</i> Space Physics, 2016 , 121, 2423-2430	2.6	29
38	On the energy source for diffuse Jovian auroral emissivity. <i>Geophysical Research Letters</i> , 2001 , 28, 2751	-247554	28
37	Ion cyclotron absorption at the second harmonic of the oxygen gyrofrequency. <i>Geophysical Research Letters</i> , 1990 , 17, 2225-2228	4.9	28
36	On the parameter dependence of the whistler anisotropy instability. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 2001-2009	2.6	27
35	Electron butterfly distribution modulation by magnetosonic waves. <i>Geophysical Research Letters</i> , 2016 , 43, 3051-3059	4.9	27

34	Contemporaneous EMIC and whistler mode waves: Observations and consequences for MeV electron loss. <i>Geophysical Research Letters</i> , 2017 , 44, 8113-8121	4.9	26
33	Strong enhancement of 101100 keV electron fluxes by combined effects of chorus waves and time domain structures. <i>Geophysical Research Letters</i> , 2016 , 43, 4683-4690	4.9	26
32	Evolution of Electron Distribution Driven by Nonlinear Resonances With Intense Field-Aligned Chorus Waves. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 8149-8169	2.6	26
31	Resonant excitation of whistler waves by a helical electron beam. <i>Geophysical Research Letters</i> , 2016 , 43, 2413-2421	4.9	25
30	Excitation of dayside chorus waves due to magnetic field line compression in response to interplanetary shocks. <i>Journal of Geophysical Research: Space Physics</i> , 2015 , 120, 8327-8338	2.6	25
29	Ion Heating by Electromagnetic Ion Cyclotron Waves and Magnetosonic Waves in the Earth's Inner Magnetosphere. <i>Geophysical Research Letters</i> , 2019 , 46, 6258-6267	4.9	24
28	Observations of MeV electrons in Jupiter's innermost radiation belts and polar regions by the Juno radiation monitoring investigation: Perijoves 1 and 3. <i>Geophysical Research Letters</i> , 2017 , 44, 4481-4488	4.9	23
27	Erosion and refilling of the plasmasphere during a geomagnetic storm modeled by a neural network. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 7118-7129	2.6	22
26	Electrostatic and whistler instabilities excited by an electron beam. <i>Physics of Plasmas</i> , 2017 , 24, 07211	62.1	22
25	The Characteristic Pitch Angle Distributions of 1 LeV to 600 LeV Protons Near the Equator Based On Van Allen Probes Observations. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 9464-9473	2.6	21
24	The Characteristic Response of Whistler Mode Waves to Interplanetary Shocks. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 10,047	2.6	21
23	Rapid enhancement of low-energy (. Journal of Geophysical Research: Space Physics, 2016, 121, 6430-64-	43 .6	20
22	Nonlinear evolution of EMIC waves in a uniform magnetic field: 2. Test-particle scattering. <i>Journal of Geophysical Research</i> , 2010 , 115, n/a-n/a		20
21	Oxygen Ion Dynamics in the Earth's Ring Current: Van Allen Probes Observations. <i>Journal of Geophysical Research: Space Physics</i> , 2019 , 124, 7786-7798	2.6	19
20	Modeling Jupiter's synchrotron radiation. <i>Geophysical Research Letters</i> , 2001 , 28, 903-906	4.9	18
19	Effects of discreteness of chorus waves on quasilinear diffusion-based modeling of energetic electron dynamics. <i>Journal of Geophysical Research: Space Physics</i> , 2014 , 119, 8848-8857	2.6	17
18	A multispacecraft event study of Pc5 ultralow-frequency waves in the magnetosphere and their external drivers. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 5132-5147	2.6	15
17	Chorus Wave Modulation of Langmuir Waves in the Radiation Belts. <i>Geophysical Research Letters</i> , 2017 , 44, 11,713-11,721	4.9	15

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16	Transitional behavior of different energy protons based on Van Allen Probes observations. <i>Geophysical Research Letters</i> , 2017 , 44, 625-633	4.9	14
15	Physical mechanism causing rapid changes in ultrarelativistic electron pitch angle distributions right after a shock arrival: Evaluation of an electron dropout event. <i>Journal of Geophysical Research:</i> Space Physics, 2016 , 121, 8300-8316	2.6	14
14	Diffuse auroral precipitation in the jovian upper atmosphere and magnetospheric electron flux variability. <i>Icarus</i> , 2005 , 178, 406-416	3.8	14
13	Very Oblique Whistler Mode Propagation in the Radiation Belts: Effects of Hot Plasma and Landau Damping. <i>Geophysical Research Letters</i> , 2017 , 44, 12,057	4.9	13
12	Understanding the Origin of Jupiter's Diffuse Aurora Using Juno's First Perijove Observations. <i>Geophysical Research Letters</i> , 2017 , 44, 10,162-10,170	4.9	12
11	Zipper-like [beriodic magnetosonic waves: Van Allen Probes, THEMIS, and magnetospheric multiscale observations. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 1600-1610	2.6	11
10	Diffusive Transport of Several Hundred keV Electrons in the Earth's Slot Region. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 10,235	2.6	11
9	Comparison of formulas for resonant interactions between energetic electrons and oblique whistler-mode waves. <i>Physics of Plasmas</i> , 2015 , 22, 052902	2.1	11
8	Artificial Neural Networks for Determining Magnetospheric Conditions 2018, 279-300		10
7	Artificial Neural Networks for Determining Magnetospheric Conditions 2018 , 279-300 Coherently modulated whistler mode waves simultaneously observed over unexpectedly large spatial scales. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 1871-1882	2.6	10
	Coherently modulated whistler mode waves simultaneously observed over unexpectedly large	2.6	
7	Coherently modulated whistler mode waves simultaneously observed over unexpectedly large spatial scales. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 1871-1882		9
7	Coherently modulated whistler mode waves simultaneously observed over unexpectedly large spatial scales. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 1871-1882 WaveParticle Interactions in the Earth's Magnetosphere. <i>Geophysical Monograph Series</i> , 2021 , 93-108 Electron butterfly distributions at particular magnetic latitudes observed during Juno's perijove	1.1	9
7 6 5	Coherently modulated whistler mode waves simultaneously observed over unexpectedly large spatial scales. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 1871-1882 WaveBarticle Interactions in the Earth's Magnetosphere. <i>Geophysical Monograph Series</i> , 2021 , 93-108 Electron butterfly distributions at particular magnetic latitudes observed during Juno's perijove pass. <i>Geophysical Research Letters</i> , 2017 , 44, 4489-4496 Analysis of plasmaspheric hiss wave amplitudes inferred from low-altitude POES electron data: Validation with conjunctive Van Allen Probes observations. <i>Journal of Geophysical Research: Space</i>	1.1 4·9	9 8 6
7 6 5 4	Coherently modulated whistler mode waves simultaneously observed over unexpectedly large spatial scales. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 1871-1882 WaveParticle Interactions in the Earth's Magnetosphere. <i>Geophysical Monograph Series</i> , 2021 , 93-108 Electron butterfly distributions at particular magnetic latitudes observed during Juno's perijove pass. <i>Geophysical Research Letters</i> , 2017 , 44, 4489-4496 Analysis of plasmaspheric hiss wave amplitudes inferred from low-altitude POES electron data: Validation with conjunctive Van Allen Probes observations. <i>Journal of Geophysical Research: Space Physics</i> , 2015 , 120, 8681-8691 Searching for low-altitude magnetic field anomalies by using observations of the energetic particle	1.1 4.9 2.6	9 8 6 4