

Richard Thorne

List of Publications by Year in Descending Order

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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.

177
papers

21,404
citations

78
h-index

144
g-index

177
ext. papers

23,336
ext. citations

7.7
avg, IF

6.74
L-index

#	Paper	IF	Citations
177	WaveParticle Interactions in the Earth's Magnetosphere. <i>Geophysical Monograph Series</i> , 2021 , 93-108	1.1	8
176	Recent Advances in Understanding Radiation Belt Electron Dynamics Due to WaveParticle Interactions. <i>Geophysical Monograph Series</i> , 2020 , 207-229	1.1	1
175	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
174	Nonlinear Electron Interaction With Intense Chorus Waves: Statistics of Occurrence Rates. <i>Geophysical Research Letters</i> , 2019 , 46, 7182-7190	4.9	29
173	Origin of two-band chorus in the radiation belt of Earth. <i>Nature Communications</i> , 2019 , 10, 4672	17.4	29
172	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
171	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
170	The Composition of Plasma inside Geostationary Orbit Based on Van Allen Probes Observations. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 6478-6493	2.6	31
169	Electron Flux Enhancements at L = 4.2 Observed by Global Positioning System Satellites: Relationship With Solar Wind and Geomagnetic Activity. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 6189-6206	2.6	1
168	Artificial Neural Networks for Determining Magnetospheric Conditions 2018 , 279-300		10
167	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
166	Electron Nonlinear Resonant Interaction With Short and Intense Parallel Chorus Wave Packets. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 4979-4999	2.6	35
165	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
164	Transitional behavior of different energy protons based on Van Allen Probes observations. <i>Geophysical Research Letters</i> , 2017 , 44, 625-633	4.9	14
163	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	9
162	Zipper-likeperiodic 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
161	On the parameter dependence of the whistler anisotropy instability. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 2001-2009	2.6	27

160	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
159	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
158	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
157	Searching for low-altitude magnetic field anomalies by using observations of the energetic particle loss cone on JUNO. <i>Geophysical Research Letters</i> , 2017 , 44, 4472-4480	4.9	2
156	Electron butterfly distributions at particular magnetic latitudes observed during Juno's perijove pass. <i>Geophysical Research Letters</i> , 2017 , 44, 4489-4496	4.9	6
155	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
154	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
153	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
152	The Characteristic Pitch Angle Distributions of 1keV to 600keV 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
151	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
150	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
149	Electrostatic and whistler instabilities excited by an electron beam. <i>Physics of Plasmas</i> , 2017 , 24, 072116	2.1	22
148	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
147	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
146	Chorus Wave Modulation of Langmuir Waves in the Radiation Belts. <i>Geophysical Research Letters</i> , 2017 , 44, 11,713-11,721	4.9	15
145	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
144	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
143	Magnetospheric Science Objectives of the Juno Mission. <i>Space Science Reviews</i> , 2017 , 213, 219-287	7.5	138

142	Rapid enhancement of low-energy (. <i>Journal of Geophysical Research: Space Physics</i> , 2016 , 121, 6430-6443	3.6	20
141	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: Space Physics</i> , 2016 , 121, 8300-8316	2.6	14
140	Resonant excitation of whistler waves by a helical electron beam. <i>Geophysical Research Letters</i> , 2016 , 43, 2413-2421	4.9	25
139	Unraveling the excitation mechanisms of highly oblique lower band chorus waves. <i>Geophysical Research Letters</i> , 2016 , 43, 8867-8875	4.9	58
138	Electron scattering by magnetosonic waves in the inner magnetosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2016 , 121, 274-285	2.6	82
137	Origins of the Earth's Diffuse Auroral Precipitation. <i>Space Science Reviews</i> , 2016 , 200, 205-259	7.5	92
136	Formation of energetic electron butterfly distributions by magnetosonic waves via Landau resonance. <i>Geophysical Research Letters</i> , 2016 , 43, 3009-3016	4.9	73
135	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
134	Strong enhancement of 10-100 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
133	Simulation of energy-dependent electron diffusion processes in the Earth's outer radiation belt. <i>Journal of Geophysical Research: Space Physics</i> , 2016 , 121, 4217-4231	2.6	34
132	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
131	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
130	A unified approach to inner magnetospheric state prediction. <i>Journal of Geophysical Research: Space Physics</i> , 2016 , 121, 2423-2430	2.6	29
129	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
128	Electron butterfly distribution modulation by magnetosonic waves. <i>Geophysical Research Letters</i> , 2016 , 43, 3051-3059	4.9	27
127	Statistical distribution of EMIC wave spectra: Observations from Van Allen Probes. <i>Geophysical Research Letters</i> , 2016 , 43, 12,348	4.9	40
126	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
125	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

124	Analytical approximation of transit time scattering due to magnetosonic waves. <i>Geophysical Research Letters</i> , 2015 , 42, 1318-1325	4.9	31
123	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
122	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
121	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
120	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
119	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
118	Nonlinear bounce resonances between magnetosonic waves and equatorially mirroring electrons. <i>Journal of Geophysical Research: Space Physics</i> , 2015 , 120, 6514-6527	2.6	57
117	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	2.6	4
116	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
115	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
114	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	4.9	39
113	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
112	The trapping of equatorial magnetosonic waves in the Earth's outer plasmasphere. <i>Geophysical Research Letters</i> , 2014 , 41, 6307-6313	4.9	41
111	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
110	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
109	Quantifying hiss-driven energetic electron precipitation: A detailed conjunction event analysis. <i>Geophysical Research Letters</i> , 2014 , 41, 1085-1092	4.9	33
108	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
107	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

106	Resonant scattering of energetic electrons by unusual low-frequency hiss. <i>Geophysical Research Letters</i> , 2014 , 41, 1854-1861	4.9	95
105	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
104	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
103	An impenetrable barrier to ultrarelativistic electrons in the Van Allen radiation belts. <i>Nature</i> , 2014 , 515, 531-4	50.4	135
102	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
101	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
100	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
99	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
98	Electron acceleration in the heart of the Van Allen radiation belts. <i>Science</i> , 2013 , 341, 991-4	33.3	379
97	Rapid local acceleration of relativistic radiation-belt electrons by magnetospheric chorus. <i>Nature</i> , 2013 , 504, 411-4	50.4	481
96	Science Goals and Overview of the Radiation Belt Storm Probes (RBSP) Energetic Particle, Composition, and Thermal Plasma (ECT) Suite on NASA's Van Allen Probes Mission. <i>Space Science Reviews</i> , 2013 , 179, 311-336	7.5	383
95	Evolution and slow decay of an unusual narrow ring of relativistic electrons near L ~ 3.2 following the September 2012 magnetic storm. <i>Geophysical Research Letters</i> , 2013 , 40, 3507-3511	4.9	137
94	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
93	Modeling the wave normal distribution of chorus waves. <i>Journal of Geophysical Research: Space Physics</i> , 2013 , 118, 1074-1088	2.6	65
92	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
91	Global distribution of equatorial magnetosonic waves observed by THEMIS. <i>Geophysical Research Letters</i> , 2013 , 40, 1895-1901	4.9	115
90	Global statistical evidence for chorus as the embryonic source of plasmaspheric hiss. <i>Geophysical Research Letters</i> , 2013 , 40, 2891-2896	4.9	49
89	A new diffusion matrix for whistler mode chorus waves. <i>Journal of Geophysical Research: Space Physics</i> , 2013 , 118, 6302-6318	2.6	54

88	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, 4526-4532	4.9	119
87	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
86	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
85	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
84	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
83	Amplification of whistler-mode hiss inside the plasmasphere. <i>Geophysical Research Letters</i> , 2012 , 39, n/a-n/a	4.9	64
82	Perpendicular propagation of magnetosonic waves. <i>Geophysical Research Letters</i> , 2012 , 39, n/a-n/a	4.9	61
81	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
80	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
79	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
78	Modulation of plasmaspheric hiss intensity by thermal plasma density structure. <i>Geophysical Research Letters</i> , 2012 , 39, n/a-n/a	4.9	35
77	Characteristics of hiss-like and discrete whistler-mode emissions. <i>Geophysical Research Letters</i> , 2012 , 39,	4.9	67
76	Magnetosonic wave instability analysis for proton ring distributions observed by the LANL magnetospheric plasma analyzer. <i>Journal of Geophysical Research</i> , 2011 , 116,		51
75	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
74	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
73	Modulation of whistler mode chorus waves: 2. Role of density variations. <i>Journal of Geophysical Research</i> , 2011 , 116, n/a-n/a		47
72	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
71	Typical properties of rising and falling tone chorus waves. <i>Geophysical Research Letters</i> , 2011 , 38, n/a-n/a	4.9	84

70	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
69	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
68	Free energy to drive equatorial magnetosonic wave instability at geosynchronous orbit. <i>Journal of Geophysical Research</i> , 2011 , 116, n/a-n/a		32
67	Modeling the wave power distribution and characteristics of plasmaspheric hiss. <i>Journal of Geophysical Research</i> , 2011 , 116, n/a-n/a		58
66	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
65	Scattering by chorus waves as the dominant cause of diffuse auroral precipitation. <i>Nature</i> , 2010 , 467, 943-6	50.4	347
64	Identifying the driver of pulsating aurora. <i>Science</i> , 2010 , 330, 81-4	33.3	208
63	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
62	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
61	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
60	Global simulation of magnetosonic wave instability in the storm time magnetosphere. <i>Journal of Geophysical Research</i> , 2010 , 115, n/a-n/a		134
59	Radiation belt dynamics: The importance of wave-particle interactions. <i>Geophysical Research Letters</i> , 2010 , 37, n/a-n/a	4.9	486
58	An observation linking the origin of plasmaspheric hiss to discrete chorus emissions. <i>Science</i> , 2009 , 324, 775-8	33.3	156
57	Plasmaspheric hiss overview and relation to chorus. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2009 , 71, 1636-1646	2	32
56	Global distribution of whistler-mode chorus waves observed on the THEMIS spacecraft. <i>Geophysical Research Letters</i> , 2009 , 36,	4.9	245
55	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
54	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
53	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

52	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		80
51	The unexpected origin of plasmaspheric hiss from discrete chorus emissions. <i>Nature</i> , 2008 , 452, 62-6	50.4	269
50	Gyro-resonant electron acceleration at Jupiter. <i>Nature Physics</i> , 2008 , 4, 301-304	16.2	68
49	Electron scattering by whistler-mode ELF hiss in plasmaspheric plumes. <i>Journal of Geophysical Research</i> , 2008 , 113, n/a-n/a		154
48	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
47	Nonlinear interaction of energetic electrons with large amplitude chorus. <i>Geophysical Research Letters</i> , 2008 , 35,	4.9	169
46	Parameterization of radiation belt electron loss timescales due to interactions with chorus waves. <i>Geophysical Research Letters</i> , 2007 , 34,	4.9	112
45	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
44	Modeling the propagation characteristics of chorus using CRRES suprathermal electron fluxes. <i>Journal of Geophysical Research</i> , 2007 , 112, n/a-n/a		96
43	Ray tracing of penetrating chorus and its implications for the radiation belts. <i>Geophysical Research Letters</i> , 2007 , 34,	4.9	47
42	Electron acceleration in the Van Allen radiation belts by fast magnetosonic waves. <i>Geophysical Research Letters</i> , 2007 , 34,	4.9	296
41	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
40	Energetic outer zone electron loss timescales during low geomagnetic activity. <i>Journal of Geophysical Research</i> , 2006 , 111,		152
39	Outward radial diffusion driven by losses at magnetopause. <i>Journal of Geophysical Research</i> , 2006 , 111,		293
38	Origins of plasmaspheric hiss. <i>Journal of Geophysical Research</i> , 2006 , 111,		102
37	Timescale for MeV electron microburst loss during geomagnetic storms. <i>Journal of Geophysical Research</i> , 2005 , 110,		260
36	Timescale for radiation belt electron acceleration by whistler mode chorus waves. <i>Journal of Geophysical Research</i> , 2005 , 110,		501
35	Diffuse auroral precipitation in the jovian upper atmosphere and magnetospheric electron flux variability. <i>Icarus</i> , 2005 , 178, 406-416	3.8	14

34	Wave acceleration of electrons in the Van Allen radiation belts. <i>Nature</i> , 2005 , 437, 227-30	50.4	429
33	Substorm dependence of plasmaspheric hiss. <i>Journal of Geophysical Research</i> , 2004 , 109,		249
32	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
31	Relativistic electron pitch-angle scattering by electromagnetic ion cyclotron waves during geomagnetic storms. <i>Journal of Geophysical Research</i> , 2003 , 108,		532
30	Statistical analysis of relativistic electron energies for cyclotron resonance with EMIC waves observed on CRRES. <i>Journal of Geophysical Research</i> , 2003 , 108,		342
29	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
28	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
27	Ultra-relativistic electrons in Jupiter's radiation belts. <i>Nature</i> , 2002 , 415, 987-91	50.4	89
26	Outer zone relativistic electron acceleration associated with substorm-enhanced whistler mode chorus. <i>Journal of Geophysical Research</i> , 2002 , 107, SMP 29-1		180
25	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
24	Modeling Jupiter's synchrotron radiation. <i>Geophysical Research Letters</i> , 2001 , 28, 903-906	4.9	18
23	On the energy source for diffuse Jovian auroral emissivity. <i>Geophysical Research Letters</i> , 2001 , 28, 2751-2754	4.9	28
22	Modeling ring current proton precipitation by electromagnetic ion cyclotron waves during the May 14/16, 1997, storm. <i>Journal of Geophysical Research</i> , 2001 , 106, 7-22		228
21	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
20	The terrestrial ring current: Origin, formation, and decay. <i>Reviews of Geophysics</i> , 1999 , 37, 407-438	23.1	430
19	Electron scattering loss in Earth's inner magnetosphere: 1. Dominant physical processes. <i>Journal of Geophysical Research</i> , 1998 , 103, 2385-2396		385
18	Electron scattering loss in Earth's inner magnetosphere: 2. Sensitivity to model parameters. <i>Journal of Geophysical Research</i> , 1998 , 103, 2397-2407		135
17	Potential waves for relativistic electron scattering and stochastic acceleration during magnetic storms. <i>Geophysical Research Letters</i> , 1998 , 25, 3011-3014	4.9	462

16	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
15	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
14	Landau damping of magnetospherically reflected whistlers. <i>Journal of Geophysical Research</i> , 1994 , 99, 17249		54
13	Energy transfer between energetic ring current H ⁺ and O ⁺ by electromagnetic ion cyclotron waves. <i>Journal of Geophysical Research</i> , 1994 , 99, 17275		65
12	Convective instabilities of electromagnetic ion cyclotron waves in the outer magnetosphere. <i>Journal of Geophysical Research</i> , 1994 , 99, 17259		113
11	On the preferred source location for the convective amplification of ion cyclotron waves. <i>Journal of Geophysical Research</i> , 1993 , 98, 9233		208
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