Richard Thorne

List of Publications by Year
in descending order

175 papers	25,490 citations	5558 82 h-index	6630 156 g-index
177 all docs	177 docs citations	177 times ranked	3360 citing authors

#	Article	IF	Citations
1	Nonlinear Electron Interaction With Intense Chorus Waves: Statistics of Occurrence Rates. Geophysical Research Letters, 2019, 46, 7182-7190.	1.5	53
2	Origin of two-band chorus in the radiation belt of Earth. Nature Communications, 2019, 10, 4672.	5.8	52
3	Oxygen Ion Dynamics in the Earth's Ring Current: Van Allen Probes Observations. Journal of Geophysical Research: Space Physics, 2019, 124, 7786-7798.	0.8	34
4	Ion Heating by Electromagnetic Ion Cyclotron Waves and Magnetosonic Waves in the Earth's Inner Magnetosphere. Geophysical Research Letters, 2019, 46, 6258-6267.	1.5	48
5	Quantitative Evaluation of Radial Diffusion and Local Acceleration Processes During GEM Challenge Events. Journal of Geophysical Research: Space Physics, 2018, 123, 1938-1952.	0.8	86
6	Electron Nonlinear Resonant Interaction With Short and Intense Parallel Chorus Wave Packets. Journal of Geophysical Research: Space Physics, 2018, 123, 4979-4999.	0.8	59
7	Evolution of Electron Distribution Driven by Nonlinear Resonances With Intense Fieldâ€Aligned Chorus Waves. Journal of Geophysical Research: Space Physics, 2018, 123, 8149-8169.	0.8	47
8	The Composition of Plasma inside Geostationary Orbit Based on Van Allen Probes Observations. Journal of Geophysical Research: Space Physics, 2018, 123, 6478-6493.	0.8	47
9	Electron Flux Enhancements at <i>L</i> = 4.2 Observed by Global Positioning System Satellites: Relationship With Solar Wind and Geomagnetic Activity. Journal of Geophysical Research: Space Physics, 2018, 123, 6189-6206.	0.8	3
10	Artificial Neural Networks for Determining Magnetospheric Conditions. , 2018, , 279-300.		24
11	Properties of Intense Fieldâ€Aligned Lowerâ€Band Chorus Waves: Implications for Nonlinear Waveâ€Particle Interactions. Journal of Geophysical Research: Space Physics, 2018, 123, 5379-5393.	0.8	62
12	Transitional behavior of different energy protons based on Van Allen Probes observations. Geophysical Research Letters, 2017, 44, 625-633.	1.5	20
13	Coherently modulated whistler mode waves simultaneously observed over unexpectedly large spatial scales. Journal of Geophysical Research: Space Physics, 2017, 122, 1871-1882.	0.8	12
14	â€œZipperâ€likeâ€•periodic magnetosonic waves: Van Allen Probes, THEMIS, and magnetospheric multiscale observations. Journal of Geophysical Research: Space Physics, 2017, 122, 1600-1610.	0.8	12
15	On the parameter dependence of the whistler anisotropy instability. Journal of Geophysical Research: Space Physics, 2017, 122, 2001-2009.	0.8	32
16	A multispacecraft event study of Pc5 ultralowâ€frequency waves in the magnetosphere and their external drivers. Journal of Geophysical Research: Space Physics, 2017, 122, 5132-5147.	0.8	24
17	Jupiterâ€™s interior and deep atmosphere: The initial pole-to-pole passes with the Juno spacecraft. Science, 2017, 356, 821-825.	6.0	229
18	Jupiterâ€™s magnetosphere and aurorae observed by the Juno spacecraft during its first polar orbits. Science, 2017, 356, 826-832.	6.0	109

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19	Searching for low-altitude magnetic field anomalies by using observations of the energetic particle loss cone on JUNO. Geophysical Research Letters, 2017, 44, 4472-4480.	1.5	3
20	Electron butterfly distributions at particular magnetic latitudes observed during Juno's perijove pass. Geophysical Research Letters, 2017, 44, 4489-4496.	1.5	6
21	Observations of MeV electrons in Jupiter's innermost radiation belts and polar regions by the Juno radiation monitoring investigation: Perijoves 1 and 3. Geophysical Research Letters, 2017, 44, 4481-4488.	1.5	29
22	Understanding the Origin of Jupiter's Diffuse Aurora Using Juno's First Perijove Observations. Geophysical Research Letters, 2017, 44, 10,162.	1.5	17
23	Diffusive Transport of Several Hundred keV Electrons in the Earth's Slot Region. Journal of Geophysical Research: Space Physics, 2017, 122, 10,235.	0.8	15
24	The Characteristic Pitch Angle Distributions of 1ÂeV to 600ÂkeV Protons Near the Equator Based On Van Allen Probes Observations. Journal of Geophysical Research: Space Physics, 2017, 122, 9464-9473.	0.8	33
25	A neural network model of threeâ€dimensional dynamic electron density in the inner magnetosphere. Journal of Geophysical Research: Space Physics, 2017, 122, 9183-9197.	0.8	51
26	Erosion and refilling of the plasmasphere during a geomagnetic storm modeled by a neural network. Journal of Geophysical Research: Space Physics, 2017, 122, 7118-7129.	0.8	34
27	Electrostatic and whistler instabilities excited by an electron beam. Physics of Plasmas, 2017, 24, .	0.7	24
28	Contemporaneous EMIC and whistler mode waves: Observations and consequences for MeV electron loss. Geophysical Research Letters, 2017, 44, 8113-8121.	1.5	40
29	Very Oblique Whistler Mode Propagation in the Radiation Belts: Effects of Hot Plasma and Landau Damping. Geophysical Research Letters, 2017, 44, 12,057.	1.5	25
30	Chorus Wave Modulation of Langmuir Waves in the Radiation Belts. Geophysical Research Letters, 2017, 44, 11,713.	1.5	18
31	VLF waves from groundâ€based transmitters observed by the Van Allen Probes: Statistical model and effects on plasmaspheric electrons. Geophysical Research Letters, 2017, 44, 6483-6491.	1.5	66
32	The Characteristic Response of Whistler Mode Waves to Interplanetary Shocks. Journal of Geophysical Research: Space Physics, 2017, 122, 10,047.	0.8	29
33	Magnetospheric Science Objectives of the Juno Mission. Space Science Reviews, 2017, 213, 219-287.	3.7	163
34	Formation of energetic electron butterfly distributions by magnetosonic waves via Landau resonance. Geophysical Research Letters, 2016, 43, 3009-3016.	1.5	88
35	Radiation belt electron acceleration during the 17 March 2015 geomagnetic storm: Observations and simulations. Journal of Geophysical Research: Space Physics, 2016, 121, 5520-5536.	0.8	77
36	Strong enhancement of 10â€"100â€‰keV electron fluxes by combined effects of chorus waves and time domain structures. Geophysical Research Letters, 2016, 43, 4683-4690.	1.5	33

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37	Simulation of energyâ€dependent electron diffusion processes in the Earth's outer radiation belt. Journal of Geophysical Research: Space Physics, 2016, 121, 4217-4231.	0.8	50
38	New chorus wave properties near the equator from Van Allen Probes wave observations. Geophysical Research Letters, 2016, 43, 4725-4735.	1.5	100
39	Characteristic energy range of electron scattering due to plasmaspheric hiss. Journal of Geophysical Research: Space Physics, 2016, 121, 11,737.	0.8	54
40	A unified approach to inner magnetospheric state prediction. Journal of Geophysical Research: Space Physics, 2016, 121, 2423-2430.	0.8	52
41	Ultrarelativistic electron butterfly distributions created by parallel acceleration due to magnetosonic waves. Journal of Geophysical Research: Space Physics, 2016, 121, 3212-3222.	0.8	38
42	Electron butterfly distribution modulation by magnetosonic waves. Geophysical Research Letters, 2016, 43, 3051-3059.	1.5	33
43	Statistical distribution of EMIC wave spectra: Observations from Van Allen Probes. Geophysical Research Letters, 2016, 43, 12,348.	1.5	69
44	The relationship between the macroscopic state of electrons and the properties of chorus waves observed by the Van Allen Probes. Geophysical Research Letters, 2016, 43, 7804-7812.	1.5	50
45	Direct evidence for EMIC wave scattering of relativistic electrons in space. Journal of Geophysical Research: Space Physics, 2016, 121, 6620-6631.	0.8	67
46	Rapid enhancement of lowâ€energy (<100â€‰eV) ion flux in response to interplanetary shocks based on two Van Allen Probes case studies: Implications for source regions and heating mechanisms. Journal of Geophysical Research: Space Physics, 2016, 121, 6430-6443.	0.8	34
47	Physical mechanism causing rapid changes in ultrarelativistic electron pitch angle distributions right after a shock arrival: Evaluation of an electron dropout event. Journal of Geophysical Research: Space Physics, 2016, 121, 8300-8316.	0.8	19
48	Resonant excitation of whistler waves by a helical electron beam. Geophysical Research Letters, 2016, 43, 2413-2421.	1.5	35
49	Unraveling the excitation mechanisms of highly oblique lower band chorus waves. Geophysical Research Letters, 2016, 43, 8867-8875.	1.5	75
50	Electron scattering by magnetosonic waves in the inner magnetosphere. Journal of Geophysical Research: Space Physics, 2016, 121, 274-285.	0.8	102
51	Origins of the Earthâ€™s Diffuse Auroral Precipitation. Space Science Reviews, 2016, 200, 205-259.	3.7	136
52	Variability of the pitch angle distribution of radiation belt ultrarelativistic electrons during and following intense geomagnetic storms: Van Allen Probes observations. Journal of Geophysical Research: Space Physics, 2015, 120, 4863-4876.	0.8	43
53	Source and seed populations for relativistic electrons: Their roles in radiation belt changes. Journal of Geophysical Research: Space Physics, 2015, 120, 7240-7254.	0.8	215
54	Statistical properties of plasmaspheric hiss derived from Van Allen Probes data and their effects on radiation belt electron dynamics. Journal of Geophysical Research: Space Physics, 2015, 120, 3393-3405.	0.8	164

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55	Excitation of dayside chorus waves due to magnetic field line compression in response to interplanetary shocks. Journal of Geophysical Research: Space Physics, 2015, 120, 8327-8338.	0.8	32
56	Nonlinear bounce resonances between magnetosonic waves and equatorially mirroring electrons. Journal of Geophysical Research: Space Physics, 2015, 120, 6514-6527.	0.8	68
57	Analysis of plasmaspheric hiss wave amplitudes inferred from lowâ€altitude POES electron data: Validation with conjunctive Van Allen Probes observations. Journal of Geophysical Research: Space Physics, 2015, 120, 8681-8691.	0.8	7
58	The effect of different solar wind parameters upon significant relativistic electron flux dropouts in the magnetosphere. Journal of Geophysical Research: Space Physics, 2015, 120, 4324-4337.	0.8	43
59	Solar wind conditions leading to efficient radiation belt electron acceleration: A superposed epoch analysis. Geophysical Research Letters, 2015, 42, 6906-6915.	1.5	48
60	First evidence for chorus at a large geocentric distance as a source of plasmaspheric hiss: Coordinated THEMIS and Van Allen Probes observation. Geophysical Research Letters, 2015, 42, 241-248.	1.5	48
61	Modeling inward diffusion and slow decay of energetic electrons in the Earth's outer radiation belt. Geophysical Research Letters, 2015, 42, 987-995.	1.5	87
62	Analytical approximation of transit time scattering due to magnetosonic waves. Geophysical Research Letters, 2015, 42, 1318-1325.	1.5	38
63	Comparison of formulas for resonant interactions between energetic electrons and oblique whistler-mode waves. Physics of Plasmas, 2015, 22, 052902.	0.7	15
64	Effects of discreteness of chorus waves on quasilinear diffusionâ€based modeling of energetic electron dynamics. Journal of Geophysical Research: Space Physics, 2014, 119, 8848-8857.	0.8	19
65	An impenetrable barrier to ultrarelativistic electrons in the Van Allen radiation belts. Nature, 2014, 515, 531-534.	13.7	159
66	Evidence of stronger pitch angle scattering loss caused by oblique whistlerâ€mode waves as compared with quasiâ€parallel waves. Geophysical Research Letters, 2014, 41, 6063-6070.	1.5	63
67	Competing source and loss mechanisms due to waveâ€particle interactions in Earth's outer radiation belt during the 30 September to 3 October 2012 geomagnetic storm. Journal of Geophysical Research: Space Physics, 2014, 119, 1960-1979.	0.8	103
68	The trapping of equatorial magnetosonic waves in the Earth's outer plasmasphere. Geophysical Research Letters, 2014, 41, 6307-6313.	1.5	51
69	Magnetosonic wave excitation by ion ring distributions in the Earth's inner magnetosphere. Journal of Geophysical Research: Space Physics, 2014, 119, 844-852.	0.8	84
70	Radiation belt electron acceleration by chorus waves during the 17 March 2013 storm. Journal of Geophysical Research: Space Physics, 2014, 119, 4681-4693.	0.8	182
71	Quantifying hissâ€driven energetic electron precipitation: A detailed conjunction event analysis. Geophysical Research Letters, 2014, 41, 1085-1092.	1.5	36
72	A novel technique to construct the global distribution of whistler mode chorus wave intensity using lowâ€altitude POES electron data. Journal of Geophysical Research: Space Physics, 2014, 119, 5685-5699.	0.8	63

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73	New evidence for generation mechanisms of discrete and hissâ€like whistler mode waves. Geophysical Research Letters, 2014, 41, 4805-4811.	1.5	58
74	Resonant scattering of energetic electrons by unusual low-frequency hiss. Geophysical Research Letters, 2014, 41, 1854-1861.	1.5	110
75	Gradual diffusion and punctuated phase space density enhancements of highly relativistic electrons: Van Allen Probes observations. Geophysical Research Letters, 2014, 41, 1351-1358.	1.5	127
76	The Electric and Magnetic Field Instrument Suite and Integrated Science (EMFISIS) on RBSP. Space Science Reviews, 2013, 179, 127-181.	3.7	932
77	An unusual enhancement of lowâ€frequency plasmaspheric hiss in the outer plasmasphere associated with substormâ€injected electrons. Geophysical Research Letters, 2013, 40, 3798-3803.	1.5	120
78	Electron Acceleration in the Heart of the Van Allen Radiation Belts. Science, 2013, 341, 991-994.	6.0	463
79	Rapid local acceleration of relativistic radiation-belt electrons by magnetospheric chorus. Nature, 2013, 504, 411-414.	13.7	608
80	Science Goals and Overview of the Radiation Belt Storm Probes (RBSP) Energetic Particle, Composition, and Thermal Plasma (ECT) Suite on NASAâ€™s Van Allen Probes Mission. Space Science Reviews, 2013, 179, 311-336.	3.7	463
81	Evolution and slow decay of an unusual narrow ring of relativistic electrons near Lâ€‰~â€‰3.2 following the September 2012 magnetic storm. Geophysical Research Letters, 2013, 40, 3507-3511.	1.5	150
82	A Long-Lived Relativistic Electron Storage Ring Embedded in Earthâ€™s Outer Van Allen Belt. Science, 2013, 340, 186-190.	6.0	216
83	Modeling the wave normal distribution of chorus waves. Journal of Geophysical Research: Space Physics, 2013, 118, 1074-1088.	0.8	91
84	Characteristics of the Poynting flux and wave normal vectors of whistlerâ€mode waves observed on THEMIS. Journal of Geophysical Research: Space Physics, 2013, 118, 1461-1471.	0.8	101
85	Global distribution of equatorial magnetosonic waves observed by THEMIS. Geophysical Research Letters, 2013, 40, 1895-1901.	1.5	137
86	Global statistical evidence for chorus as the embryonic source ofâ€‰plasmaspheric hiss. Geophysical Research Letters, 2013, 40, 2891-2896.	1.5	56
87	A new diffusion matrix for whistler mode chorus waves. Journal of Geophysical Research: Space Physics, 2013, 118, 6302-6318.	0.8	70
88	Constructing the global distribution of chorus wave intensity using measurements of electrons by the POES satellites and waves by the Van Allen Probes. Geophysical Research Letters, 2013, 40, 4526-4532.	1.5	153
89	Resonant scattering and resultant pitch angle evolution of relativistic electrons by plasmaspheric hiss. Journal of Geophysical Research: Space Physics, 2013, 118, 7740-7751.	0.8	175
90	Characteristics of hissâ€like and discrete whistlerâ€mode emissions. Geophysical Research Letters, 2012, 39, .	1.5	83

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91	Global model of lower band and upper band chorus from multiple satellite observations. Journal of Geophysical Research, 2012, 117, .	3.3	229
92	Modeling ring current ion and electron dynamics and plasma instabilities during a highâ€speed stream driven storm. Journal of Geophysical Research, 2012, 117, .	3.3	73
93	Effects of amplitude modulation on nonlinear interactions between electrons and chorus waves. Geophysical Research Letters, 2012, 39, .	1.5	80
94	Amplification of whistlerâ€mode hiss inside the plasmasphere. Geophysical Research Letters, 2012, 39, .	1.5	73
95	Perpendicular propagation of magnetosonic waves. Geophysical Research Letters, 2012, 39, .	1.5	70
96	Comparison of bounceâ€averaged quasiâ€linear diffusion coefficients for parallel propagating whistler mode waves with test particle simulations. Journal of Geophysical Research, 2012, 117, .	3.3	83
97	Modeling the properties of plasmaspheric hiss: 2. Dependence on the plasma density distribution. Journal of Geophysical Research, 2012, 117, .	3.3	38
98	Modeling the properties of plasmaspheric hiss: 1. Dependence on chorus wave emission. Journal of Geophysical Research, 2012, 117, .	3.3	74
99	Modulation of plasmaspheric hiss intensity by thermal plasma density structure. Geophysical Research Letters, 2012, 39, .	1.5	47
100	Magnetosonic wave instability analysis for proton ring distributions observed by the LANL magnetospheric plasma analyzer. Journal of Geophysical Research, 2011, 116, .	3.3	63
101	Evolution of electron pitch angle distributions following injection from the plasma sheet. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	99
102	Modulation of whistler mode chorus waves: 1. Role of compressional Pc4-5 pulsations. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	67
103	Modulation of whistler mode chorus waves: 2. Role of density variations. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	68
104	Comparison of quasilinear diffusion coefficients for parallel propagating whistler mode waves with test particle simulations. Geophysical Research Letters, 2011, 38, n/a-n/a.	1.5	63
105	Typical properties of rising and falling tone chorus waves. Geophysical Research Letters, 2011, 38, n/a-n/a.	1.5	100
106	The controlling effect of ion temperature on EMIC wave excitation and scattering. Geophysical Research Letters, 2011, 38, n/a-n/a.	1.5	104
107	Diffuse auroral scattering by whistler mode chorus waves: Dependence on wave normal angle distribution. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	53
108	Free energy to drive equatorial magnetosonic wave instability at geosynchronous orbit. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	38

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109	Modeling the wave power distribution and characteristics of plasmaspheric hiss. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	61
110	Global distribution of wave amplitudes and wave normal angles of chorus waves using THEMIS wave observations. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	230
111	Scattering by chorus waves as the dominant cause of diffuse auroral precipitation. Nature, 2010, 467, 943-946.	13.7	432
112	Identifying the Driver of Pulsating Aurora. Science, 2010, 330, 81-84.	6.0	249
113	Rapid scattering of radiation belt electrons by stormâ€time EMIC waves. Geophysical Research Letters, 2010, 37, .	1.5	135
114	Nonlinear evolution of EMIC waves in a uniform magnetic field: 2. Testâ€particle scattering. Journal of Geophysical Research, 2010, 115, .	3.3	27
115	Global distributions of suprathermal electrons observed on THEMIS and potential mechanisms for access into the plasmasphere. Journal of Geophysical Research, 2010, 115, .	3.3	118
116	Global simulation of magnetosonic wave instability in the storm time magnetosphere. Journal of Geophysical Research, 2010, 115, .	3.3	152
117	Radiation belt dynamics: The importance of waveâ€particle interactions. Geophysical Research Letters, 2010, 37, .	1.5	601
118	An Observation Linking the Origin of Plasmaspheric Hiss to Discrete Chorus Emissions. Science, 2009, 324, 775-778.	6.0	173
119	Plasmaspheric hiss overview and relation to chorus. Journal of Atmospheric and Solar-Terrestrial Physics, 2009, 71, 1636-1646.	0.6	36
120	Global distribution of whistlerâ€mode chorus waves observed on the THEMIS spacecraft. Geophysical Research Letters, 2009, 36, .	1.5	282
121	Threeâ€dimensional ray tracing of VLF waves in a magnetospheric environment containing a plasmaspheric plume. Geophysical Research Letters, 2009, 36, .	1.5	76
122	Simulation of EMIC wave excitation in a model magnetosphere including structured highâ€density plumes. Journal of Geophysical Research, 2009, 114, .	3.3	109
123	Evaluation of whistlerâ€mode chorus intensification on the nightside during an injection event observed on the THEMIS spacecraft. Journal of Geophysical Research, 2009, 114, .	3.3	108
124	Simulations of pitch angle scattering of relativistic electrons with MLTâ€dependent diffusion coefficients. Journal of Geophysical Research, 2009, 114, .	3.3	88
125	The unexpected origin of plasmaspheric hiss from discrete chorus emissions. Nature, 2008, 452, 62-66.	13.7	313
126	Gyro-resonant electron acceleration atÂJupiter. Nature Physics, 2008, 4, 301-304.	6.5	84

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127	Electron scattering by whistlerâ€mode ELF hiss in plasmaspheric plumes. Journal of Geophysical Research, 2008, 113, .	3.3	175
128	Resonant scattering of plasma sheet electrons by whistlerâ€mode chorus: Contribution to diffuse auroral precipitation. Geophysical Research Letters, 2008, 35, .	1.5	323
129	Nonlinear interaction of energetic electrons with large amplitude chorus. Geophysical Research Letters, 2008, 35, .	1.5	201
130	Parameterization of radiation belt electron loss timescales due to interactions with chorus waves. Geophysical Research Letters, 2007, 34, .	1.5	122
131	Refilling of the slot region between the inner and outer electron radiation belts during geomagnetic storms. Journal of Geophysical Research, 2007, 112, n/a-n/a.	3.3	82
132	Modeling the propagation characteristics of chorus using CRRES suprathermal electron fluxes. Journal of Geophysical Research, 2007, 112, .	3.3	108
133	Ray tracing of penetrating chorus and its implications for the radiation belts. Geophysical Research Letters, 2007, 34, .	1.5	70
134	Electron acceleration in the Van Allen radiation belts by fast magnetosonic waves. Geophysical Research Letters, 2007, 34, .	1.5	341
135	Dynamic evolution of energetic outer zone electrons due to waveâ€particle interactions during storms. Journal of Geophysical Research, 2007, 112, .	3.3	307
136	Energetic outer zone electron loss timescales during low geomagnetic activity. Journal of Geophysical Research, 2006, 111, .	3.3	170
137	Outward radial diffusion driven by losses at magnetopause. Journal of Geophysical Research, 2006, 111, .	3.3	328
138	Origins of plasmaspheric hiss. Journal of Geophysical Research, 2006, 111, .	3.3	118
139	Diffuse auroral precipitation in the jovian upper atmosphere and magnetospheric electron flux variability. Icarus, 2005, 178, 406-416.	1.1	15
140	Wave acceleration of electrons in the Van Allen radiation belts. Nature, 2005, 437, 227-230.	13.7	505
141	Timescale for MeV electron microburst loss during geomagnetic storms. Journal of Geophysical Research, 2005, 110, .	3.3	296
142	Timescale for radiation belt electron acceleration by whistler mode chorus waves. Journal of Geophysical Research, 2005, 110, .	3.3	561
143	Substorm dependence of plasmaspheric hiss. Journal of Geophysical Research, 2004, 109, .	3.3	281
144	Evolution of energetic electron pitch angle distributions during storm time electron acceleration to megaelectronvolt energies. Journal of Geophysical Research, 2003, 108, SMP 11-1.	3.3	139

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145	Relativistic electron pitch-angle scattering by electromagnetic ion cyclotron waves during geomagnetic storms. Journal of Geophysical Research, 2003, 108, .	3.3	616
146	Statistical analysis of relativistic electron energies for cyclotron resonance with EMIC waves observed on CRRES. Journal of Geophysical Research, 2003, 108, .	3.3	380
147	Evidence for chorus-driven electron acceleration to relativistic energies from a survey of geomagnetically disturbed periods. Journal of Geophysical Research, 2003, 108, .	3.3	234
148	Favored regions for chorus-driven electron acceleration to relativistic energies in the Earth's outer radiation belt. Geophysical Research Letters, 2003, 30, .	1.5	256
149	Outer zone relativistic electron acceleration associated with substorm-enhanced whistler mode chorus. Journal of Geophysical Research, 2002, 107, SMP 29-1.	3.3	206
150	Model of the energization of outer-zone electrons by whistler-mode chorus during the October 9, 1990 geomagnetic storm. Geophysical Research Letters, 2002, 29, 27-1-27-4.	1.5	173
151	Ultra-relativistic electrons in Jupiter's radiation belts. Nature, 2002, 415, 987-991.	13.7	109
152	Modeling Jupiter's synchrotron radiation. Geophysical Research Letters, 2001, 28, 903-906.	1.5	26
153	On the energy source for diffuse Jovian auroral emissivity. Geophysical Research Letters, 2001, 28, 2751-2754.	1.5	31
154	Modeling ring current proton precipitation by electromagnetic ion cyclotron waves during the May 14-16, 1997, storm. Journal of Geophysical Research, 2001, 106, 7-22.	3.3	261
155	Electron pitch angle diffusion by electrostatic electron cyclotron harmonic waves: The origin of pancake distributions. Journal of Geophysical Research, 2000, 105, 5391-5402.	3.3	123
156	The terrestrial ring current: Origin, formation, and decay. Reviews of Geophysics, 1999, 37, 407-438.	9.0	523
157	Electron scattering loss in Earth's inner magnetosphere: 1. Dominant physical processes. Journal of Geophysical Research, 1998, 103, 2385-2396.	3.3	434
158	Electron scattering loss in Earth's inner magnetosphere: 2. Sensitivity to model parameters. Journal of Geophysical Research, 1998, 103, 2397-2407.	3.3	159
159	Potential waves for relativistic electron scattering and stochastic acceleration during magnetic storms. Geophysical Research Letters, 1998, 25, 3011-3014.	1.5	529
160	Relativistic theory of wave-particle resonant diffusion with application to electron acceleration in the magnetosphere. Journal of Geophysical Research, 1998, 103, 20487-20500.	3.3	737
161	Modulation of electromagnetic ion cyclotron instability due to interaction with ring current O+during magnetic storms. Journal of Geophysical Research, 1997, 102, 14155-14163.	3.3	129
162	Landau damping of magnetospherically reflected whistlers. Journal of Geophysical Research, 1994, 99, 17249.	3.3	62

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163	Energy transfer between energetic ring current H+and O+by electromagnetic ion cyclotron waves. Journal of Geophysical Research, 1994, 99, 17275.	3.3	74
164	Convective instabilities of electromagnetic ion cyclotron waves in the outer magnetosphere. Journal of Geophysical Research, 1994, 99, 17259.	3.3	123
165	On the preferred source location for the convective amplification of ion cyclotron waves. Journal of Geophysical Research, 1993, 98, 9233-9247.	3.3	225
166	The contribution of ionâ€cyclotron waves to electron heating and SARâ€arc excitation near the stormâ€time plasmapause. Geophysical Research Letters, 1992, 19, 417-420.	1.5	108
167	Ion cyclotron absorption at the second harmonic of the oxygen gyrofrequency. Geophysical Research Letters, 1990, 17, 2225-2228.	1.5	32
168	Microscopic plasma processes in the Jovian magnetosphere. , 1983, , 454-488.		81
169	Diffuse Jovian aurora influenced by plasma injection from Io. Geophysical Research Letters, 1979, 6, 649-652.	1.5	46
170	Plasmaspheric hiss. Journal of Geophysical Research, 1973, 78, 1581-1596.	3.3	407
171	Equilibrium structure of radiation belt electrons. Journal of Geophysical Research, 1973, 78, 2142-2149.	3.3	493
172	Pitch-angle diffusion of radiation belt electrons within the plasmasphere. Journal of Geophysical Research, 1972, 77, 3455-3474.	3.3	688
173	Parasitic pitch angle diffusion of radiation belt particles by ion cyclotron waves. Journal of Geophysical Research, 1972, 77, 5608-5616.	3.3	179
174	Relativistic electron precipitation during magnetic storm main phase. Journal of Geophysical Research, 1971, 76, 4446-4453.	3.3	397
175	Turbulent loss of ring current protons. Journal of Geophysical Research, 1970, 75, 4699-4709.	3.3	492