

Wave acceleration of electrons in the Van Allen radiatio

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Ground based VLF observations near $L=2.5$ during the Halloween 2003 storm. Geophysical Research Letters, 2005, 32, .	1.5	14
2	The solar wind and geomagnetic activity as a function of time relative to corotating interaction regions. Geophysical Monograph Series, 2006, , 125-137.	0.1	36
3	Mechanisms for the acceleration of radiation belt electrons. Geophysical Monograph Series, 2006, , 151-173.	0.1	36
4	Astrophysics in 2005. Publications of the Astronomical Society of the Pacific, 2006, 118, 947-1047.	1.0	6
5	Acceleration mechanism responsible for the formation of the new radiation belt during the 2003 Halloween solar storm. Geophysical Research Letters, 2006, 33, .	1.5	157
6	Phase space density analysis of the outer radiation belt energetic electron dynamics. Journal of Geophysical Research, 2006, 111, .	3.3	88
7	Propagation of whistler mode chorus to low altitudes: Spacecraft observations of structured ELF hiss. Journal of Geophysical Research, 2006, 111, .	3.3	106
8	The first cluster and double star symposium. Eos, 2006, 87, 13.	0.1	5
9	Correlation between the inner edge of outer radiation belt electrons and the innermost plasmopause location. Geophysical Research Letters, 2006, 33, .	1.5	119
10	Outward radial diffusion driven by losses at magnetopause. Journal of Geophysical Research, 2006, 111, .	3.3	328
11	Observation of two distinct, rapid loss mechanisms during the 20 November 2003 radiation belt dropout event. Journal of Geophysical Research, 2006, 111, .	3.3	172
12	A TID and SEE Radiation-Hardened, Wideband, Low-Noise Amplifier. IEEE Transactions on Nuclear Science, 2006, 53, 3439-3448.	1.2	15
13	Bounce-Averaged Acceleration of Energetic Electrons by Whistler Mode Chorus in the Magnetosphere. Chinese Physics Letters, 2007, 24, 294-297.	1.3	16
14	Low-altitude measurements of $2\text{--}6$ MeV electron trapping lifetimes at $1.5 \leq L \leq 2.5$. Geophysical Research Letters, 2007, 34, .	1.5	68
16	Computer simulation of chorus wave generation in the Earth's inner magnetosphere. Geophysical Research Letters, 2007, 34, .	1.5	144
17	Parameterization of radiation belt electron loss timescales due to interactions with chorus waves. Geophysical Research Letters, 2007, 34, .	1.5	122
18	Timescales for radiation belt electron acceleration and loss due to resonant wave-particle interactions: 1. Theory. Journal of Geophysical Research, 2007, 112, n/a-n/a.	3.3	211
19	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. Journal of Geophysical Research, 2007, 112, n/a-n/a.	3.3	391

#	ARTICLE	IF	CITATIONS
20	Loss of relativistic electrons: Evidence for pitch angle scattering by electromagnetic ion cyclotron waves excited by unstable ring current protons. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	85
21	Evolution of the outer radiation belt during the November 1993 storms driven by corotating interaction regions. <i>Journal of Geophysical Research</i> , 2007, 112, n/a-n/a.	3.3	59
22	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.	3.3	82
23	Evolution of ring current and radiation belt particles under the influence of storm-time electric fields. <i>Journal of Geophysical Research</i> , 2007, 112, n/a-n/a.	3.3	22
24	Global MHD test particle simulations of >10 MeV radiation belt electrons during storm sudden commencement. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	84
25	Modeling the propagation characteristics of chorus using CRRES suprathermal electron fluxes. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	108
26	Relativistic particle acceleration in the process of whistler-mode chorus wave generation. <i>Geophysical Research Letters</i> , 2007, 34, .	1.5	47
27	Electron acceleration in the Van Allen radiation belts by fast magnetosonic waves. <i>Geophysical Research Letters</i> , 2007, 34, .	1.5	341
28	Radiation belt electron precipitation into the atmosphere: Recovery from a geomagnetic storm. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	75
29	Slot region electron loss timescales due to plasmaspheric hiss and lightning-generated whistlers. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	228
30	A Kalman filter technique to estimate relativistic electron lifetimes in the outer radiation belt. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	55
31	Electron flux enhancement in the inner radiation belt during moderate magnetic storms. <i>Annales Geophysicae</i> , 2007, 25, 1359-1364.	0.6	14
32	The energization of relativistic electrons in the outer Van Allen radiation belt. <i>Nature Physics</i> , 2007, 3, 614-617.	6.5	237
33	Acceleration of killer electrons. <i>Nature Physics</i> , 2007, 3, 590-591.	6.5	62
34	Vortices on the scales. <i>Nature Physics</i> , 2007, 3, 591-591.	6.5	2
35	Pulsar radiation belts and transient radio emission. <i>Monthly Notices of the Royal Astronomical Society</i> , 2007, 378, 1481-1490.	1.6	39
36	The dual role of ELF/VLF chorus waves in the acceleration and precipitation of radiation belt electrons. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2007, 69, 378-386.	0.6	173
37	Energetic electron flux behavior at low L-shells and its relation to the South Atlantic Anomaly. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2008, 70, 532-538.	0.6	20

#	ARTICLE	IF	CITATIONS
38	Polar PWI and CEPPAD observations of chorus emissions and radiation belt electron acceleration: Four case studies. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2008, 70, 1774-1788.	0.6	7
39	Review of modeling of losses and sources of relativistic electrons in the outer radiation belt II: Local acceleration and loss. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2008, 70, 1694-1713.	0.6	368
40	Thunderstorms, Lightning, Sprites and Magnetospheric Whistler-Mode Radio Waves. <i>Surveys in Geophysics</i> , 2008, 29, 499-551.	2.1	46
41	Solar cycle changes, geomagnetic variations, and energetic particle properties in the inner magnetosphere. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2008, 70, 195-206.	0.6	72
42	Relationship of the Van Allen radiation belts to solar wind drivers. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2008, 70, 708-729.	0.6	107
43	Characterization of relativistic electron flux rise times during the recovery phase of geomagnetic storms as measured by the NS41 GPS satellite. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2008, 70, 1745-1759.	0.6	6
44	Global MHD test particle simulations of solar energetic electron trapping in the Earth's radiation belts. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2008, 70, 1727-1737.	0.6	16
45	Review of modeling of losses and sources of relativistic electrons in the outer radiation belt I: Radial transport. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2008, 70, 1679-1693.	0.6	197
46	Energetic electron distributions fitted with a relativistic kappa-type function at geosynchronous orbit. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	111
47	Gyro-resonant electron acceleration at Jupiter. <i>Nature Physics</i> , 2008, 4, 301-304.	6.5	84
48	Drift resonant generation of peaked relativistic electron distributions by Pc 5 ULF waves. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	77
49	Radiation Belt Environment model: Application to space weather nowcasting. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	140
50	Electron scattering by whistler-mode ELF hiss in plasmaspheric plumes. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	175
51	Three-dimensional test simulations of the outer radiation belt electron dynamics including electron-chorus resonant interactions. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	109
52	Survey of magnetosonic waves and proton ring distributions in the Earth's inner magnetosphere. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	174
53	Relativistic electron precipitation by EMIC waves from self-consistent global simulations. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	223
54	Pitch Angle Distribution Evolution of Energetic Electrons by Whistler-Mode Chorus. <i>Chinese Physics Letters</i> , 2008, 25, 3515-3518.	1.3	19
55	The Formation of a Relativistic Partially Electromagnetic Planar Plasma Shock. <i>Astrophysical Journal</i> , 2008, 675, 586-595.	1.6	29

#	ARTICLE	IF	CITATIONS
57	New results of investigations of whistler-mode chorus emissions. <i>Nonlinear Processes in Geophysics</i> , 2008, 15, 621-630.	0.6	60
58	Survey of ELF-VLF plasma waves in outer radiation belt observed by Cluster STAFF-SA experiment. <i>Annales Geophysicae</i> , 2008, 26, 3269-3277.	0.6	27
59	A survey of Galileo plasma wave instrument observations of Jovian whistler-mode chorus. <i>Annales Geophysicae</i> , 2008, 26, 1819-1828.	0.6	26
60	Polarization properties of Gendrin mode waves observed in the Earth's magnetosphere: observations and theory. <i>Annales Geophysicae</i> , 2009, 27, 4429-4433.	0.6	14
61	The Origin of Plasmaspheric Hiss. <i>Science</i> , 2009, 324, 729-730.	6.0	20
62	African Meridian B-Field Education and Research (AMBER) Array. <i>Earth, Moon and Planets</i> , 2009, 104, 237-246.	0.3	40
63	Dynamics of the Earth's Particle Radiation Environment. <i>Space Science Reviews</i> , 2009, 147, 187-231.	3.7	160
64	Advances in Plasmaspheric Wave Research with CLUSTER and IMAGE Observations. <i>Space Science Reviews</i> , 2009, 145, 137-191.	3.7	10
65	Solar-wind-magnetosphere coupling, including relativistic electron energization, during high-speed streams. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2009, 71, 1059-1072.	0.6	10
66	Radiation belt electron flux variability during three CIR-driven geomagnetic storms. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2009, 71, 1145-1156.	0.6	13
67	Ultra low frequency waves impact on radiation belt energetic particles. <i>Science in China Series D: Earth Sciences</i> , 2009, 52, 3698-3708.	0.9	10
68	Analytic models of warm plasma dispersion relations. <i>Physics of Plasmas</i> , 2009, 16, 092103.	0.7	9
69	Properties of dayside nonlinear rising tone chorus emissions at large L observed by GEOTAIL. <i>Earth, Planets and Space</i> , 2009, 61, 625-628.	0.9	13
70	Statistical roles of storms and substorms in changing the entire outer zone relativistic electron population. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	52
71	Three-dimensional diffusion simulation of outer radiation belt electrons during the 9 October 1990 magnetic storm. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	160
72	Energetic electron response to ULF waves induced by interplanetary shocks in the outer radiation belt. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	266
73	Modeling the deep penetration of outer belt electrons during the "Halloween" magnetic storm in 2003. <i>Space Weather</i> , 2009, 7, .	1.3	39
74	Simultaneous satellite observations of VLF chorus, hot and relativistic electrons in a magnetic storm "recovery" phase. <i>Geophysical Research Letters</i> , 2009, 36, .	1.5	38

#	ARTICLE	IF	CITATIONS
75	Pitch angle distribution evolution of energetic electrons in the inner radiation belt and slot region during the 2003 Halloween storm. Journal of Geophysical Research, 2009, 114, .	3.3	47
76	Properties of dayside outer zone chorus during HILDCAA events: Loss of energetic electrons. Journal of Geophysical Research, 2009, 114, .	3.3	116
77	Additional stratospheric NO _x production by relativistic electron precipitation during the 2004 spring NO _x descent event. Journal of Geophysical Research, 2009, 114, .	3.3	29
78	Storm-dependent radiation belt electron dynamics. Journal of Geophysical Research, 2009, 114, .	3.3	78
79	Simulations of pitch angle scattering of relativistic electrons with MLT-dependent diffusion coefficients. Journal of Geophysical Research, 2009, 114, .	3.3	88
80	Evolution of electron fluxes in the outer radiation belt computed with the VERB code. Journal of Geophysical Research, 2009, 114, .	3.3	183
81	Relativistic electron loss timescales in the slot region. Journal of Geophysical Research, 2009, 114, .	3.3	137
82	Diurnal dependence of ELF/VLF hiss and its relation to chorus at $L = 2.4$. Journal of Geophysical Research, 2009, 114, .	3.3	10
83	Similarity of Jupiter and RRATs. Proceedings of the International Astronomical Union, 2010, 6, 85-88.	0.0	0
84	Latest progress on interactions between VLF/ELF waves and energetic electrons in the inner magnetosphere. Science China Earth Sciences, 2010, 53, 317-326.	2.3	5
85	Dynamic evolution of outer radiation belt electrons driven by superluminous R-X mode waves. Science China Technological Sciences, 2010, 53, 2734-2738.	2.0	4
86	Interaction between electromagnetic waves and energetic particles by a realistic density model. Science China Technological Sciences, 2010, 53, 2552-2557.	2.0	3
87	Space Weather: Physics, Effects and Predictability. Surveys in Geophysics, 2010, 31, 581-638.	2.1	61
88	Nonlinear interactions between relativistic radiation belt electrons and oblique whistler mode waves. Nonlinear Processes in Geophysics, 2010, 17, 599-604.	0.6	83
89	Electron acceleration by whistler-mode waves around the magnetic null during 3D reconnection. Plasma Physics and Controlled Fusion, 2010, 52, 052001.	0.9	10
90	Cosmic Radiation, Including its Effects on Airline Crew, Frequent Flyers, and Space Travel. Radioactivity in the Environment, 2010, , 87-121.	0.2	3
91	Chorus source region localization in the Earth's outer magnetosphere using THEMIS measurements. Annales Geophysicae, 2010, 28, 1377-1386.	0.6	41
92	Dynamic modeling of radiation belt electrons by radial diffusion simulation for a 2 month interval following the 24 March 1991 storm injection. Journal of Geophysical Research, 2010, 115, .	3.3	20

#	ARTICLE	IF	CITATIONS
93	Drivers of chorus in the outer dayside magnetosphere. Journal of Geophysical Research, 2010, 115, .	3.3	35
94	Locations of chorus emissions observed by the Polar Plasma Wave Instrument. Journal of Geophysical Research, 2010, 115, .	3.3	21
95	Wave normal angles of magnetospheric chorus emissions observed on the Polar spacecraft. Journal of Geophysical Research, 2010, 115, .	3.3	68
96	Properties of obliquely propagating chorus. Journal of Geophysical Research, 2010, 115, .	3.3	47
97	Pitch angle transport of electrons due to cyclotron interactions with the coherent chorus subelements. Journal of Geophysical Research, 2010, 115, .	3.3	51
98	Location and size of the global source region of whistler mode chorus. Journal of Geophysical Research, 2010, 115, .	3.3	8
99	Wave-particle interactions in the equatorial source region of whistler-mode emissions. Journal of Geophysical Research, 2010, 115, .	3.3	51
100	Observations of the relationship between frequency sweep rates of chorus wave packets and plasma density. Journal of Geophysical Research, 2010, 115, .	3.3	48
101	Ground-based estimates of outer radiation belt energetic electron precipitation fluxes into the atmosphere. Journal of Geophysical Research, 2010, 115, .	3.3	50
102	Introduction to the special section on Chorus: Chorus and its role in space weather. Journal of Geophysical Research, 2010, 115, .	3.3	12
103	Role of the plasmopause in dictating the ground accessibility of ELF/MLF chorus. Journal of Geophysical Research, 2010, 115, .	3.3	22
104	Radiation belt dynamics: The importance of wave-particle interactions. Geophysical Research Letters, 2010, 37, .	1.5	601
106	Large amplitude whistlers in the magnetosphere observed with Wind-Waves. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	50
107	Importance of plasma injection events for energization of relativistic electrons in the Jovian magnetosphere. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	9
108	On the latitudinal extent of chorus emissions as observed by the Polar Plasma Wave Instrument. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	26
109	Determination of solar cycle variations of midlatitude ELF/VLF chorus and hiss via automated signal detection. Journal of Geophysical Research, 2011, 116, .	3.3	16
110	Resonant scattering of plasma sheet electrons leading to diffuse auroral precipitation: 2. Evaluation for whistler mode chorus waves. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	128
111	Quasi-coherent chorus properties: 1. Implications for wave-particle interactions. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	42

#	ARTICLE	IF	CITATIONS
112	Energetic electron precipitation during high-speed solar wind stream driven storms. Journal of Geophysical Research, 2011, 116, .	3.3	110
113	Modulation of whistler mode chorus waves: 2. Role of density variations. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	68
114	Simulation of the acceleration of relativistic electrons in the inner magnetosphere using RCM-VERB coupled codes. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	22
115	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
116	Intense plasma wave emissions associated with Saturn's moon Rhea. Geophysical Research Letters, 2011, 38, n/a-n/a.	1.5	32
117	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
118	Long-term radiation belt simulation with the VERB 3-D code: Comparison with CRRES observations. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	74
119	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
120	Profound change of the near-Earth radiation environment caused by solar superstorms. Space Weather, 2011, 9, .	1.3	30
121	Adaptive oxide electronics: A review. Journal of Applied Physics, 2011, 110, .	1.1	268
122	Dynamic Inner Magnetosphere: A Tutorial and Recent Advances. , 2011, , 145-187.		28
123	Magnetospheric ULF Waves: A Review. , 2011, , 223-256.		50
124	Probing geospace with VLF radio signals. Astronomy and Geophysics, 2011, 52, 2.27-2.30.	0.1	4
125	Reanalysis of radiation belt electron phase space density using various boundary conditions and loss models. Advances in Space Research, 2011, 48, 1327-1334.	1.2	24
126	Understanding relativistic electron losses with BARREL. Journal of Atmospheric and Solar-Terrestrial Physics, 2011, 73, 1425-1434.	0.6	35
127	Laser "plasma-accelerators" A novel, versatile tool for space radiation studies. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 636, 31-40.	0.7	19
128	Solar cycle variations of outer radiation belt and its relationship to solar wind structure dependences. Journal of Atmospheric and Solar-Terrestrial Physics, 2011, 73, 77-87.	0.6	39
129	State studies of Earth's plasmasphere: A review. Planetary and Space Science, 2011, 59, 810-834.	0.9	41

#	ARTICLE	IF	CITATIONS
130	Particle acceleration by circularly and elliptically polarised dispersive Alfvén waves in a transversely inhomogeneous plasma in the inertial and kinetic regimes. <i>Physics of Plasmas</i> , 2011, 18, .	0.7	28
131	Chorus probability and wave power distributions as observed by the Polar Plasma Wave Instrument. , 2011, , .		0
132	Observations and modeling of forward and reflected chorus waves captured by THEMIS. <i>Annales Geophysicae</i> , 2011, 29, 541-550.	0.6	14
133	The whistler mode refractive index as a function of gyrofrequency. <i>Physics of Plasmas</i> , 2011, 18, 084503.	0.7	1
134	Stormtime Dynamics of the Relativistic Electron Flux in Earth's Radiation Belts. <i>AIP Conference Proceedings</i> , 2011, , .	0.3	1
135	Bounce-averaged Fokker-Planck diffusion equation in non-dipolar magnetic fields with applications to the Dungey magnetosphere. <i>Annales Geophysicae</i> , 2012, 30, 733-750.	0.6	13
136	Chorus wave-normal statistics in the Earth's radiation belts from ray tracing technique. <i>Annales Geophysicae</i> , 2012, 30, 1223-1233.	0.6	46
137	ULF wave activity during the 2003 Halloween superstorm: multipoint observations from CHAMP, Cluster and Geotail missions. <i>Annales Geophysicae</i> , 2012, 30, 1751-1768.	0.6	29
138	Correlated observations of intensified whistler waves and electron acceleration around the geostationary orbit. <i>Plasma Physics and Controlled Fusion</i> , 2012, 54, 035004.	0.9	2
139	Evolution of chorus waves and their source electrons during storms driven by corotating interaction regions. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	19
140	Dayside ELF electromagnetic wave survey: A Polar statistical study of chorus and hiss. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	28
141	Gyroresonant interactions between the radiation belt electrons and whistler mode chorus waves in the radiation environments of Earth, Jupiter, and Saturn: A comparative study. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	49
142	Electron source associated with dipolarization at the outer boundary of the radiation belts: Non-storm cases. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	10
143	Relativistic radiation belt electron responses to GEM magnetic storms: Comparison of CRRES observations with 3D VERB simulations. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	28
144	Design considerations for the use of laser-plasma accelerators for advanced space radiation studies. <i>Journal of Plasma Physics</i> , 2012, 78, 383-391.	0.7	8
145	Bounce-averaged advection and diffusion coefficients for monochromatic electromagnetic ion cyclotron wave: Comparison between test-particle and quasi-linear models. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	49
146	Chorus intensification in response to interplanetary shock. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	74
147	Statistical analysis of phase space density buildups and dropouts. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	58

#	ARTICLE	IF	CITATIONS
148	Study of the North West Cape electron belts observed by DEMETER satellite. Journal of Geophysical Research, 2012, 117, .	3.3	16
149	Three-dimensional radiation belt simulations in terms of adiabatic invariants using a single numerical grid. Journal of Geophysical Research, 2012, 117, .	3.3	26
150	Effects of amplitude modulation on nonlinear interactions between electrons and chorus waves. Geophysical Research Letters, 2012, 39, .	1.5	80
151	Electron pitch-angle diffusion in radiation belts: The effects of whistler wave oblique propagation. Geophysical Research Letters, 2012, 39, .	1.5	45
152	Comparison between theory and observation of the frequency sweep rates of equatorial rising tone chorus. Geophysical Research Letters, 2012, 39, .	1.5	35
153	Spatial dependence of banded chorus intensity near the magnetic equator. Geophysical Research Letters, 2012, 39, .	1.5	8
154	Chorus, ECH, and Z mode emissions observed at Jupiter and Saturn and possible electron acceleration. Journal of Geophysical Research, 2012, 117, .	3.3	49
155	An empirical model of magnetospheric chorus amplitude using solar wind and geomagnetic indices. Journal of Geophysical Research, 2012, 117, n/a-n/a.	3.3	11
156	Comparison of bounce-averaged quasi-linear diffusion coefficients for parallel propagating whistler mode waves with test particle simulations. Journal of Geophysical Research, 2012, 117, .	3.3	83
157	A Review of Low Frequency Electromagnetic Wave Phenomena Related to Tropospheric-Ionospheric Coupling Mechanisms. Space Science Reviews, 2012, 168, 551-593.	3.7	33
158	The role of electrons during chorus intensification: Energy source and energy loss. Journal of Atmospheric and Solar-Terrestrial Physics, 2012, 80, 37-47.	0.6	28
159	Responses of Earth's radiation belts to solar wind dynamic pressure variations in 2002 analyzed using multisatellite data and Kalman filtering. Journal of Geophysical Research: Space Physics, 2013, 118, 4400-4414.	0.8	24
160	Colorado Student Space Weather Experiment: Differential Flux Measurements of Energetic Particles in a Highly Inclined Low Earth Orbit. Geophysical Monograph Series, 0, , 385-404.	0.1	19
161	Long-term relativistic radiation belt electron responses to GEM magnetic storms. Journal of Atmospheric and Solar-Terrestrial Physics, 2013, 100-101, 59-67.	0.6	11
162	Whistler propagation in the plasmopause. Journal of Geophysical Research: Space Physics, 2013, 118, 716-723.	0.8	20
163	Electron Acceleration in the Heart of the Van Allen Radiation Belts. Science, 2013, 341, 991-994.	6.0	463
164	Discovery of the action of a geophysical synchrotron in the Earth's Van Allen radiation belts. Nature Communications, 2013, 4, .	5.8	104
165	A fast lane in the magnetosphere. Nature, 2013, 504, 383-384.	13.7	3

#	ARTICLE	IF	CITATIONS
166	Witchcraft and destruction. <i>Nature</i> , 2013, 504, 384-385.	13.7	9
167	Rapid local acceleration of relativistic radiation-belt electrons by magnetospheric chorus. <i>Nature</i> , 2013, 504, 411-414.	13.7	608
168	Space weather impacts on satellites and forecasting the Earth's electron radiation belts with SPACECAST. <i>Space Weather</i> , 2013, 11, 169-186.	1.3	149
169	Unusual stable trapping of the ultrarelativistic electrons in the Van Allen radiation belts. <i>Nature Physics</i> , 2013, 9, 699-703.	6.5	143
170	Evolution and slow decay of an unusual narrow ring of relativistic electrons near $L \approx 3.2$ following the September 2012 magnetic storm. <i>Geophysical Research Letters</i> , 2013, 40, 3507-3511.	1.5	150
171	Analysis of experimentally validated trans-ionospheric attenuation estimates of VLF signals. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 2708-2720.	0.8	48
172	SAMPEX: A Long-Serving Radiation Belt Sentinel. <i>Geophysical Monograph Series</i> , 0, , 21-40.	0.1	13
173	What Happens When the Geomagnetic Field Reverses?. <i>Geophysical Monograph Series</i> , 0, , 355-364.	0.1	1
174	The importance of amplitude modulation in nonlinear interactions between electrons and large amplitude whistler waves. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2013, 99, 67-72.	0.6	68
175	Science Objectives and Rationale for the Radiation Belt Storm Probes Mission. <i>Space Science Reviews</i> , 2013, 179, 3-27.	3.7	841
176	A Long-Lived Relativistic Electron Storage Ring Embedded in Earth's Outer Van Allen Belt. <i>Science</i> , 2013, 340, 186-190.	6.0	216
177	Temporal evolution of relativistic electrons induced by fast magnetosonic waves in the radiation belts. <i>Plasma Physics and Controlled Fusion</i> , 2013, 55, 062001.	0.9	2
178	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.	0.8	101
179	Strong diffusion limit in the realistic magnetosphere: Dependence on geomagnetic condition and spatial location. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 118-131.	0.8	4
180	Electron source at the outer boundary of the radiation belts: Storm time case. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 1545-1551.	0.8	4
181	The Relativistic Electron-Proton Telescope (REPT) Instrument on Board the Radiation Belt Storm Probes (RBSP) Spacecraft: Characterization of Earth's Radiation Belt High-Energy Particle Populations. <i>Space Science Reviews</i> , 2013, 179, 337-381.	3.7	334
182	Empirically modeled global distribution of magnetospheric chorus amplitude using an artificial neural network. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 6243-6253.	0.8	15
183	Energetic electron precipitation characteristics observed from Antarctica during a flux dropout event. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 6921-6935.	0.8	9

#	ARTICLE	IF	CITATIONS
184	Joint responses of geosynchronous magnetic field and relativistic electrons to external changes in solar wind dynamic pressure and interplanetary magnetic field. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 1472-1482.	0.8	29
185	Spatial spreading of magnetospherically reflected chorus elements in the inner magnetosphere. <i>Annales Geophysicae</i> , 2013, 31, 1429-1435.	0.6	13
186	Electron acceleration at Jupiter: input from cyclotron-resonant interaction with whistler-mode chorus waves. <i>Annales Geophysicae</i> , 2013, 31, 1619-1630.	0.6	20
187	Forecasting the Earth's radiation belts and modelling solar energetic particle events: Recent results from SPACCAST. <i>Journal of Space Weather and Space Climate</i> , 2013, 3, A20.	1.1	22
188	A new diffusion matrix for whistler mode chorus waves. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 6302-6318.	0.8	70
189	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.	1.5	153
190	Observations of nitric oxide in the Antarctic middle atmosphere during recurrent geomagnetic storms. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 7874-7885.	0.8	9
191	On the threshold energization of radiation belt electrons by double layers. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 8243-8248.	0.8	8
192	Nonstorm time dynamics of electron radiation belts observed by the Van Allen Probes. <i>Geophysical Research Letters</i> , 2014, 41, 229-235.	1.5	60
193	The origin of Jupiter's outer radiation belt. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 3490-3502.	0.8	46
194	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.	0.8	19
195	Evolution of relativistic outer belt electrons during an extended quiescent period. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 9558-9566.	0.8	28
196	Relativistic surfatron process for Landau resonant electrons in radiation belts. <i>Nonlinear Processes in Geophysics</i> , 2014, 21, 115-125.	0.6	11
197	What characterizes planetary space weather?. <i>Astronomy and Astrophysics Review</i> , 2014, 22, 1.	9.1	23
198	THEMIS measurements of quasi-static electric fields in the inner magnetosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 9939-9951.	0.8	29
199	Modeling radiation belt electron acceleration by ULF fast mode waves, launched by solar wind dynamic pressure fluctuations. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 8916-8928.	0.8	22
200	Study of typical space wave-particle coupling events possibly related with seismic activity. <i>Chinese Physics B</i> , 2014, 23, 109401.	0.7	5
201	Effect of chorus normal angle on dynamic evolution of radiation belt energetic electrons. <i>Astrophysics and Space Science</i> , 2014, 354, 401-408.	0.5	1

#	ARTICLE	IF	CITATIONS
202	Chorus acceleration of radiation belt relativistic electrons during March 2013 geomagnetic storm. Journal of Geophysical Research: Space Physics, 2014, 119, 3325-3332.	0.8	101
203	Modeling cross L shell impacts of magnetopause shadowing and ULF wave radial diffusion in the Van Allen belts. Geophysical Research Letters, 2014, 41, 6556-6562.	1.5	29
204	The importance of storm time steady magnetospheric convection in determining the final relativistic electron flux level. Journal of Geophysical Research: Space Physics, 2014, 119, 7433-7443.	0.8	14
205	Simulating the Earth's radiation belts: Internal acceleration and continuous losses to the magnetopause. Journal of Geophysical Research: Space Physics, 2014, 119, 7444-7463.	0.8	27
206	Radiation belt electron acceleration induced by gyroresonant interaction with magnetosonic waves. Astrophysics and Space Science, 2014, 353, 389-394.	0.5	4
207	Comparison of energetic electron intensities outside and inside the radiation belts. Journal of Geophysical Research: Space Physics, 2014, 119, 6213-6230.	0.8	1
208	Effects of magnetic field configuration on the day-night asymmetry of chorus occurrence rate: A numerical study. Geophysical Research Letters, 2014, 41, 6577-6582.	1.5	31
209	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
210	Electron losses from the radiation belts caused by EMIC waves. Journal of Geophysical Research: Space Physics, 2014, 119, 8820-8837.	0.8	132
211	Quantifying the relative contributions of substorm injections and chorus waves to the rapid outward extension of electron radiation belt. Journal of Geophysical Research: Space Physics, 2014, 119, 10,023.	0.8	37
212	Low-energy electrons (5-50 keV) in the inner magnetosphere. Journal of Geophysical Research: Space Physics, 2014, 119, 246-259.	0.8	33
213	A numerical study of chorus generation and the related variation of wave intensity using the DAWN code. Journal of Geophysical Research: Space Physics, 2014, 119, 3362-3372.	0.8	79
214	A model for falling-tone chorus. Geophysical Research Letters, 2014, 41, 1838-1845.	1.5	22
215	Three-dimensional electron radiation belt simulations using the BAS Radiation Belt Model with new diffusion models for chorus, plasmaspheric hiss, and lightning-generated whistlers. Journal of Geophysical Research: Space Physics, 2014, 119, 268-289.	0.8	176
216	Calculation of whistler-mode wave intensity using energetic electron precipitation. , 2014, , .		0
217	Empirical model of lower band chorus wave distribution in the outer radiation belt. Journal of Geophysical Research: Space Physics, 2015, 120, 10,425.	0.8	43
218	Measurement of inner radiation belt electrons with kinetic energy above 1 MeV. Journal of Geophysical Research: Space Physics, 2015, 120, 8339-8349.	0.8	36
219	Very oblique whistler generation by low-energy electron streams. Journal of Geophysical Research: Space Physics, 2015, 120, 3665-3683.	0.8	78

#	ARTICLE	IF	CITATIONS
220	Van Allen Probes observation and modeling of chorus excitation and propagation during weak geomagnetic activities. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 6371-6385.	0.8	6
221	Statistical study of ELF/VLF emissions at subauroral latitudes in Athabasca, Canada. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 8455-8469.	0.8	18
222	Influence of wave normal angles on hiss-electron interaction in Earth's slot region. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 9385-9400.	0.8	15
223	Ultra-low-frequency wave-driven diffusion of radiation belt relativistic electrons. <i>Nature Communications</i> , 2015, 6, 10096.	5.8	71
224	Nonlinear local parallel acceleration of electrons through Landau trapping by oblique whistler mode waves in the outer radiation belt. <i>Geophysical Research Letters</i> , 2015, 42, 10,140.	1.5	74
226	Relativistic electron acceleration during HILDCAA events: are precursor CIR magnetic storms important?. <i>Earth, Planets and Space</i> , 2015, 67, .	0.9	26
227	Van Allen Probes observations linking radiation belt electrons to chorus waves during 2014 multiple storms. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 938-948.	0.8	20
228	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.	0.8	43
229	Solar wind conditions leading to efficient radiation belt electron acceleration: A superposed epoch analysis. <i>Geophysical Research Letters</i> , 2015, 42, 6906-6915.	1.5	48
230	Survey of Saturn Z -mode emission. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 6176-6187.	0.8	12
231	Extreme relativistic electron fluxes at geosynchronous orbit: Analysis of GOES $E > 2$ MeV electrons. <i>Space Weather</i> , 2015, 13, 170-184.	1.3	44
232	Map of low-frequency electromagnetic noise in the sky. <i>Geophysical Research Letters</i> , 2015, 42, 4648-4653.	1.5	11
233	Energy-latitude dispersion patterns near the isotropy boundaries of energetic protons. <i>Annales Geophysicae</i> , 2015, 33, 1059-1070.	0.6	16
234	Oblique electromagnetic electron cyclotron waves for Kappa distribution with AC field in planetary magnetospheres. <i>Advances in Space Research</i> , 2015, 56, 714-724.	1.2	13
235	Bounce- and MLT-averaged diffusion coefficients in a physics-based magnetic field geometry obtained from RAM-SCB for the 17 March 2013 storm. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 2616-2630.	0.8	4
236	Wave-driven butterfly distribution of Van Allen belt relativistic electrons. <i>Nature Communications</i> , 2015, 6, 8590.	5.8	148
237	Nowcast model for low-energy electrons in the inner magnetosphere. <i>Space Weather</i> , 2015, 13, 16-34.	1.3	34
238	Upper limit on the inner radiation belt MeV electron intensity. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 1215-1228.	0.8	77

#	ARTICLE	IF	CITATIONS
239	Polarization analysis of VLF/ELF waves observed at subauroral latitudes during the VLF-CHAIN campaign. <i>Earth, Planets and Space</i> , 2015, 67, 21.	0.9	10
240	Wave energy budget analysis in the Earth's radiation belts uncovers a missing energy. <i>Nature Communications</i> , 2015, 6, 8143.	5.8	54
241	Explaining occurrences of auroral kilometric radiation in Van Allen radiation belts. <i>Geophysical Research Letters</i> , 2016, 43, 11,971.	1.5	16
242	Using orbital tethers to remediate geomagnetic radiation belts. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 1114-1123.	0.8	2
243	Formation of energetic electron butterfly distributions by magnetosonic waves via Landau resonance. <i>Geophysical Research Letters</i> , 2016, 43, 3009-3016.	1.5	88
244	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.	0.8	77
245	Simulation of radiation belt electron dynamics in Earth's inner magnetosphere. , 2016, , .		0
246	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.	0.8	50
247	Rapid flattening of butterfly pitch angle distributions of radiation belt electrons by whistler-mode chorus. <i>Geophysical Research Letters</i> , 2016, 43, 8339-8347.	1.5	23
248	Exclusion principle for very oblique and parallel lower band chorus waves. <i>Geophysical Research Letters</i> , 2016, 43, 11,112.	1.5	36
249	New chorus wave properties near the equator from Van Allen Probes wave observations. <i>Geophysical Research Letters</i> , 2016, 43, 4725-4735.	1.5	100
250	North west cape-induced electron precipitation and theoretical simulation. <i>Chinese Physics B</i> , 2016, 25, 119401.	0.7	6
251	Effects of ULF wave power on relativistic radiation belt electrons: 8-9 October 2012 geomagnetic storm. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 11,766.	0.8	18
252	ELF/VLF wave propagation at subauroral latitudes: Conjugate observation between the ground and Van Allen Probes A. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 5384-5393.	0.8	36
253	On the propagation of uncertainties in radiation belt simulations. <i>Space Weather</i> , 2016, 14, 982-992.	1.3	15
254	The role of localized inductive electric fields in electron injections around dipolarizing flux bundles. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 9560-9585.	0.8	95
255	Analytical study of whistler mode waves in presence of parallel DC electric field for relativistic plasma in the magnetosphere of Uranus. <i>Advances in Space Research</i> , 2016, 58, 1417-1424.	1.2	5
256	Statistical properties of the radiation belt seed population. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 7636-7646.	0.8	51

#	ARTICLE	IF	CITATIONS
257	Extreme energetic electron fluxes in low Earth orbit: Analysis of POES >30 , >100 , and >300 keV electrons. Space Weather, 2016, 14, 136-150.	1.3	18
258	Intense low-frequency chorus waves observed by Van Allen Probes: Fine structures and potential effect on radiation belt electrons. Geophysical Research Letters, 2016, 43, 967-977.	1.5	30
259	Studies on different geophysical and extra-terrestrial events within the Earth-ionosphere cavity in terms of ULF/ELF/MLF radio waves. Astrophysics and Space Science, 2016, 361, 1.	0.5	3
260	Survey of whistler mode chorus intensity at Jupiter. Journal of Geophysical Research: Space Physics, 2016, 121, 9758-9770.	0.8	23
261	Wave-induced loss of ultra-relativistic electrons in the Van Allen radiation belts. Nature Communications, 2016, 7, 12883.	5.8	127
262	What effect do substorms have on the content of the radiation belts?. Journal of Geophysical Research: Space Physics, 2016, 121, 6292-6306.	0.8	40
263	Fast injection of the relativistic electrons into the inner zone and the formation of the split-zone structure during the Bastille Day storm in July 2000. Journal of Geophysical Research: Space Physics, 2016, 121, 8329-8342.	0.8	10
264	Magnetospheric chorus wave instability induced by relativistic Kappa-type distributions. Science China Technological Sciences, 2016, 59, 1739-1745.	2.0	4
265	Oblique Whistler-Mode Waves in the Earth's Inner Magnetosphere: Energy Distribution, Origins, and Role in Radiation Belt Dynamics. Space Science Reviews, 2016, 200, 261-355.	3.7	145
266	Nighttime mesospheric hydroxyl enhancements during SEP events and accompanying geomagnetic storms: Ionization rate modeling and Aura satellite observations. Journal of Geophysical Research: Space Physics, 2016, 121, 6017-6030.	0.8	5
267	Quasi-periodic injections of relativistic electrons in Saturn's outer magnetosphere. Icarus, 2016, 263, 101-116.	1.1	36
268	Energy transfer from lower energy to higher-energy electrons mediated by whistler waves in the radiation belts. Journal of Geophysical Research: Space Physics, 2017, 122, 640-655.	0.8	30
269	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
270	A positive correlation between energetic electron butterfly distributions and magnetosonic waves in the radiation belt slot region. Geophysical Research Letters, 2017, 44, 3980-3990.	1.5	27
271	Simultaneous disappearances of plasmaspheric hiss, exohiss, and chorus waves triggered by a sudden decrease in solar wind dynamic pressure. Geophysical Research Letters, 2017, 44, 52-61.	1.5	31
272	Spatial scale and duration of one microburst region on 13 August 2015. Journal of Geophysical Research: Space Physics, 2017, 122, 5949-5964.	0.8	25
273	Observation of atomic oxygen O(1 S) greenline emission in the summer polar upper mesosphere associated with high-energy (>30 keV) electron precipitation during high-speed solar wind streams. Journal of Geophysical Research: Space Physics, 2017, 122, 1042-1054.	0.8	1
274	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

#	ARTICLE	IF	CITATIONS
275	Relativistic electron's butterfly pitch angle distribution modulated by localized background magnetic field perturbation driven by hot ring current ions. <i>Geophysical Research Letters</i> , 2017, 44, 4393-4400.	1.5	19
276	Achievements and Challenges in the Science of Space Weather. <i>Space Science Reviews</i> , 2017, 212, 1137-1157.	3.7	45
277	Quasilinear analysis of saturation properties of broadband whistler mode waves. <i>Geophysical Research Letters</i> , 2017, 44, 8122-8129.	1.5	25
278	Self-consistent formation of a 0.5 cyclotron frequency gap in magnetospheric whistler mode waves. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 8166-8180.	0.8	29
279	Chorus Wave Modulation of Langmuir Waves in the Radiation Belts. <i>Geophysical Research Letters</i> , 2017, 44, 11,713.	1.5	18
280	Electron Fluxes at Geostationary Orbit From GOES MAGED Data. <i>Space Weather</i> , 2017, 15, 1602-1614.	1.3	24
281	The Contribution of Compressional Magnetic Pumping to the Energization of the Earth's Outer Electron Radiation Belt During High-Speed Stream-Driven Storms. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 12,072.	0.8	7
282	Electron Flux Dropouts at ~ 4.2 From Global Positioning System Satellites: Occurrences, Magnitudes, and Main Driving Factors. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 11,428.	0.8	29
283	Investigations of the electron phase space dynamics in triggered whistler wave emissions using low noise Δf method. <i>Plasma Physics and Controlled Fusion</i> , 2017, 59, 094001.	0.9	15
284	Generation of banded chorus by a two-component energetic electron distribution in an inhomogeneous magnetic field. <i>Physics of Plasmas</i> , 2017, 24, 102901.	0.7	6
285	Analysis of the Duration of Rising Tone Chorus Elements. <i>Geophysical Research Letters</i> , 2017, 44, 12,074.	1.5	29
286	Scattering of Ultra-relativistic Electrons in the Van Allen Radiation Belts Accounting for Hot Plasma Effects. <i>Scientific Reports</i> , 2017, 7, 17719.	1.6	35
287	Space Weather Effects Produced by the Ring Current Particles. <i>Space Science Reviews</i> , 2017, 212, 1315-1344.	3.7	38
288	Van Allen Probes observations of whistler-mode chorus with long-lived oscillating tones. <i>Geophysical Research Letters</i> , 2017, 44, 5909-5919.	1.5	8
289	Simultaneous observations of magnetospheric ELF/VLF emissions in Canada, Finland, and Antarctica. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 6442-6454.	0.8	6
290	The Characteristic Response of Whistler Mode Waves to Interplanetary Shocks. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 10,047.	0.8	29
291	Rapid Loss of Radiation Belt Relativistic Electrons by EMIC Waves. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 9880-9897.	0.8	38
292	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.	0.8	86

#	ARTICLE	IF	CITATIONS
293	The Global Statistical Response of the Outer Radiation Belt During Geomagnetic Storms. <i>Geophysical Research Letters</i> , 2018, 45, 3783-3792.	1.5	66
294	Linking Space Weather Science to Impactsâ€”The View From the Earth. , 2018, , 3-34.		5
295	Magnetospheric â€œKillerâ€•Relativistic Electron Dropouts (REDs) and Repopulation: A Cyclical Process. , 2018, , 373-400.		18
296	Quantifying Extremely Rapid Flux Enhancements of Radiation Belt Relativistic Electrons Associated With Radial Diffusion. <i>Geophysical Research Letters</i> , 2018, 45, 1262-1270.	1.5	11
297	Storm Time Evolution of Outer Radiation Belt Relativistic Electrons by a Nearly Continuous Distribution of Chorus. <i>Geophysical Research Letters</i> , 2018, 45, 2159-2167.	1.5	6
298	An Energetic Electron Flux Dropout Due to Magnetopause Shadowing on 1 June 2013. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 1178-1190.	0.8	16
299	Relativistic electron precipitation bands in the outside radiation environment of the International space station. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2018, 177, 247-256.	0.6	7
300	Synthetic Empirical Chorus Wave Model From Combined Van Allen Probes and Cluster Statistics. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 297-314.	0.8	100
301	Analysis of Intense <i>Z</i> -Mode Emission Observed During the Cassini Proximal Orbits. <i>Geophysical Research Letters</i> , 2018, 45, 6766-6772.	1.5	8
302	Electron Acceleration and Diffusion in the Gyrophase Space by Low-Frequency Electromagnetic Waves. <i>IEEE Transactions on Plasma Science</i> , 2018, 46, 225-229.	0.6	1
303	Exohiss wave enhancement following substorm electron injection in the dayside magnetosphere. <i>Earth and Planetary Physics</i> , 2018, 2, 1-12.	0.4	9
304	A statistical study of the spatial distribution and source-region size of chorus waves using Van Allen Probes data. <i>Annales Geophysicae</i> , 2018, 36, 867-878.	0.6	18
305	A 30â€•Year Simulation of the Outer Electron Radiation Belt. <i>Space Weather</i> , 2018, 16, 1498-1522.	1.3	46
306	Ultrawideband Risingâ€•Tone Chorus Waves Observed Inside the Oscillating Plasmopause. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 6670-6678.	0.8	11
307	Electron Acceleration to MeV Energies at Jupiter and Saturn. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 9110-9129.	0.8	46
308	Ultralow Frequency Waves as an Intermediary for Solar Wind Energy Input Into the Radiation Belts. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 10,090.	0.8	12
309	Formation of electron radiation belts at Saturn by Z-mode wave acceleration. <i>Nature Communications</i> , 2018, 9, 5062.	5.8	29
310	Electron Nonlinear Resonant Interaction With Short and Intense Parallel Chorus Wave Packets. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 4979-4999.	0.8	59

#	ARTICLE	IF	CITATIONS
311	Kinetic theory of small-amplitude fluctuations in astrophysical plasmas. <i>Physics Reports</i> , 2018, 783-785, 1-84.	10.3	5
312	Spatial Extent and Temporal Correlation of Chorus and Hiss: Statistical Results From Multipoint THEMIS Observations. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 8317-8330.	0.8	52
313	On the Initial Enhancement of Energetic Electrons and the Innermost Plasmapause Locations: Coronal Mass Ejection-Driven Storm Periods. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 9252-9264.	0.8	20
314	Direct measurements of two-way wave-particle energy transfer in a collisionless space plasma. <i>Science</i> , 2018, 361, 1000-1003.	6.0	36
315	Generation of Lower L Shell Dayside Chorus by Energetic Electrons From the Plasma Sheet. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 8109-8121.	0.8	4
316	A Distributed Lag Autoregressive Model of Geostationary Relativistic Electron Fluxes: Comparing the Influences of Waves, Seed and Source Electrons, and Solar Wind Inputs. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 3646-3671.	0.8	20
317	Validation and Analysis of Bounce Resonance Diffusion Coefficients. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 104-113.	0.8	11
318	What Causes Radiation Belt Enhancements: A Survey of the Van Allen Probes Era. <i>Geophysical Research Letters</i> , 2018, 45, 5253-5259.	1.5	71
319	Trapping (capture) into resonance and scattering on resonance: Summary of results for space plasma systems. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2018, 65, 111-160.	1.7	47
320	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.	0.8	47
321	Strong whistler mode waves observed in the vicinity of Jupiter's moons. <i>Nature Communications</i> , 2018, 9, 3131.	5.8	22
322	Observations and Modeling of Increased Nitric Oxide in the Antarctic Polar Middle Atmosphere Associated With Geomagnetic Storm-Driven Energetic Electron Precipitation. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 6009-6025.	0.8	22
323	Simulation and Quasi-Linear Theory of Whistler Anisotropy Instability. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 3277-3290.	0.8	10
324	The ARASE (ERG) magnetic field investigation. <i>Earth, Planets and Space</i> , 2018, 70, .	0.9	118
325	Medium-energy particle experiments' electron analyzer (MEP-e) for the exploration of energization and radiation in geospace (ERG) mission. <i>Earth, Planets and Space</i> , 2018, 70, .	0.9	57
326	Nonlinear Drift Resonance Between Charged Particles and Ultralow Frequency Waves: Theory and Observations. <i>Geophysical Research Letters</i> , 2018, 45, 8773-8782.	1.5	20
327	Realistic Worst Case for a Severe Space Weather Event Driven by a Fast Solar Wind Stream. <i>Space Weather</i> , 2018, 16, 1202-1215.	1.3	23
328	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.	0.8	62

#	ARTICLE	IF	CITATIONS
329	Characteristics of Rising Tone Whistler Mode Waves Inside the Earth's Plasmasphere, Plasmaspheric Plumes, and Plasmatrough. <i>Geophysical Research Letters</i> , 2019, 46, 7121-7130.	1.5	7
330	Transport and Loss of Ring Current Electrons Inside Geosynchronous Orbit During the 17 March 2013 Storm. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 915-933.	0.8	11
331	The MERIT Onboard the CeREs: A Novel Instrument to Study Energetic Particles in the Earth's Radiation Belts. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 5734-5760.	0.8	12
332	Whistler instability based on observed flat-top two-component electron distributions in the Earth's magnetosphere. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 488, 954-964.	1.6	32
333	Rapid Electron Acceleration in Low-Density Regions of Saturn's Radiation Belt by Whistler Mode Chorus Waves. <i>Geophysical Research Letters</i> , 2019, 46, 7191-7198.	1.5	22
334	Simulations of the inner magnetospheric energetic electrons using the IMPTAM-VERB coupled model. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2019, 191, 105050.	0.6	6
335	Saturation Properties of Whistler Wave Instability in a Plasma With Two Electron Components. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 5121-5128.	0.8	2
336	Origin of two-band chorus in the radiation belt of Earth. <i>Nature Communications</i> , 2019, 10, 4672.	5.8	52
337	Particle-in-Cell Experiments Examine Electron Diffusion by Whistler Mode Waves: 1. Benchmarking With a Cold Plasma. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 8893-8912.	0.8	12
338	Spectral Signatures of Adiabatic Electron Acceleration at Saturn Through Corotation Drift Cancellation. <i>Geophysical Research Letters</i> , 2019, 46, 10240-10249.	1.5	12
339	Variability of Quasilinear Diffusion Coefficients for Plasmaspheric Hiss. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 8488-8506.	0.8	27
340	On How High-Latitude Chorus Waves Tip the Balance Between Acceleration and Loss of Relativistic Electrons. <i>Geophysical Research Letters</i> , 2019, 46, 7945-7954.	1.5	37
342	New hiss and chorus waves diffusion coefficient parameterizations from the Van Allen Probes and their effect on long-term relativistic electron radiation-belt VERB simulations. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2019, 193, 105090.	0.6	19
343	Atlas of the medium frequency waves in the ion-electron two-fluid plasma. <i>Physics of Plasmas</i> , 2019, 26, .	0.7	3
344	On the Close Correspondence Between Storm Time ULF Wave Power and the POES VLF Chorus Wave Amplitude Proxy. <i>Geophysical Research Letters</i> , 2019, 46, 1947-1955.	1.5	2
345	Time Scales for Electron Quasilinear Diffusion by Lower-Band Chorus Waves: The Effects of ω_{pe} Dependence on Geomagnetic Activity. <i>Geophysical Research Letters</i> , 2019, 46, 6178-6187.	1.5	33
346	On the Importance of Gradients in the Low-Energy Electron Phase Space Density for Relativistic Electron Acceleration. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 2628-2642.	0.8	14
347	Impact of Significant Time-Integrated Geomagnetic Activity on 2-MeV Electron Flux. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 4445-4461.	0.8	21

#	ARTICLE	IF	CITATIONS
348	Quantification of Energetic Electron Precipitation Driven by Plume Whistler Mode Waves, Plasmaspheric Hiss, and Exohiss. <i>Geophysical Research Letters</i> , 2019, 46, 3615-3624.	1.5	37
349	Validation of Inner Magnetosphere Particle Transport and Acceleration Model (IMPTAM) With Long-Term GOES MAGED Measurements of keV Electron Fluxes at Geostationary Orbit. <i>Space Weather</i> , 2019, 17, 687-708.	1.3	17
350	The high-energy particle package onboard CSES. <i>Radiation Detection Technology and Methods</i> , 2019, 3, 1.	0.4	34
351	Simulations on the electron dynamics in excitation of whistler mode waves with Dipole Research Experiment (DREX) parameters. <i>Physics of Plasmas</i> , 2019, 26, 022106.	0.7	4
352	How Sudden, Intense Energetic Electron Enhancements Correlate With the Innermost Plasmapause Locations Under Various Solar Wind Drivers and Geomagnetic Conditions. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 8992-9002.	0.8	8
353	Relativistic Particle Beams as a Resource to Solve Outstanding Problems in Space Physics. <i>Frontiers in Astronomy and Space Sciences</i> , 2019, 6, .	1.1	13
354	Particle balance in a steady state plasma in a dipole magnetic field. <i>Plasma Research Express</i> , 2019, 1, 045005.	0.4	6
355	Earth's Van Allen Radiation Belts: From Discovery to the Van Allen Probes Era. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 8319-8351.	0.8	137
356	Low-frequency whistler waves in quiescent runaway electron plasmas. <i>Plasma Physics and Controlled Fusion</i> , 2019, 61, 014007.	0.9	20
357	Theoretical and numerical studies of chorus waves: A review. <i>Science China Earth Sciences</i> , 2020, 63, 78-92.	2.3	48
358	Upward propagation of lightning-generated whistler waves into the radiation belts. <i>Science China Technological Sciences</i> , 2020, 63, 243-248.	2.0	9
359	Observations of radiation belt losses due to cyclotron wave-particle interactions. , 2020, , 49-98.		14
360	Particle Dynamics in the Earth's Radiation Belts: Review of Current Research and Open Questions. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA026735.	0.8	81
361	Conjugate Observations of Dayside and Nightside VLF Chorus and QP Emissions Between Arase (ERG) and Kannuslehto, Finland. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA026663.	0.8	18
362	Global Survey of Plasma Sheet Electron Precipitation due to Whistler Mode Chorus Waves in Earth's Magnetosphere. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL088798.	1.5	28
363	Electron Diffusion by Coexisting Plasmaspheric Hiss and Chorus Waves: Multisatellite Observations and Simulations. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL088753.	1.5	15
364	Forecasting GOES 15 >2 MeV Electron Fluxes From Solar Wind Data and Geomagnetic Indices. <i>Space Weather</i> , 2020, 18, e2019SW002416.	1.3	12
365	The Role of Hiss, Chorus, and EMIC Waves in the Modeling of the Dynamics of the Multi-MeV Radiation Belt Electrons. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2020JA028282.	0.8	28

#	ARTICLE	IF	CITATIONS
366	Particle-in-Cell Experiments Examine Electron Diffusion by Whistler-Mode Waves: 2. Quasi-Linear and Nonlinear Dynamics. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2020JA027949.	0.8	25
367	Local heating of radiation belt electrons to ultra-relativistic energies. <i>Nature Communications</i> , 2020, 11, 4533.	5.8	38
368	A New Approach to Constructing Models of Electron Diffusion by EMIC Waves in the Radiation Belts. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL088976.	1.5	22
369	Unusual Loss of Van Allen Belt Relativistic Electrons by Extremely Low-Frequency Chorus. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL089994.	1.5	11
370	On Phase Space Density and Its Radial Gradient of Outer Radiation Belt Seed Electrons: MMS/FEEPS Observations. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA027711.	0.8	6
371	Do Statistical Models Capture the Dynamics of the Magnetopause During Sudden Magnetospheric Compressions?. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA027289.	0.8	26
372	Controlling the Chirping of Chorus Waves via Magnetic Field Inhomogeneity. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL087791.	1.5	22
373	Global Distribution of Whistler Mode Waves in Jovian Inner Magnetosphere. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL088198.	1.5	16
374	Observations of the Source Region of Whistler Mode Waves in Magnetosheath Mirror Structures. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA027488.	0.8	12
375	On Whistler Mode Wave Relation to Electron Field-Aligned Plateau Populations. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA027735.	0.8	18
376	Spatial Distributions of Nitric Oxide in the Antarctic Wintertime Middle Atmosphere During Geomagnetic Storms. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2020JA027846.	0.8	3
377	Comparison of Long-Term Lightning Activity and Inner Radiation Belt Electron Flux Perturbations. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA027763.	0.8	3
378	Nonlinear Interactions Between Radiation Belt Electrons and Chorus Waves: Dependence on Wave Amplitude Modulation. <i>Geophysical Research Letters</i> , 2020, 47, e2019GL085987.	1.5	41
379	Nonlinear Evolution of Radiation Belt Electron Fluxes Interacting With Oblique Whistler Mode Chorus Emissions. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA027465.	0.8	24
380	Gyroresonant wave-particle interactions with chorus waves during extreme depletions of plasma density in the Van Allen radiation belts. <i>Science Advances</i> , 2021, 7, .	4.7	40
381	Multievent Study of Characteristics and Propagation of Naturally Occurring ELF/VLF Waves Using High-Latitude Ground Observations and Conjunctions With the Arase Satellite. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028682.	0.8	3
382	The First Observation of N^+ Electromagnetic Ion Cyclotron Waves. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028716.	0.8	7
383	Whistler-Mode Waves Trapped by Density Irregularities in the Earth's Magnetosphere. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL092305.	1.5	30

#	ARTICLE	IF	CITATIONS
384	Storm-Time Features of the Ionospheric ELF/VLF Waves and Energetic Electron Fluxes Revealed by the China Seismo-Electromagnetic Satellite. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 2617.	1.3	18
385	A Combined Neural Network and Physics-Based Approach for Modeling Plasmasphere Dynamics. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028077.	0.8	15
386	Observational Evidence for Whistler Mode Waves Guided/Ducted by the Inner and Outer Edges of the Plasmapause. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL092652.	1.5	11
388	Development of Space Weather Reasonable Worst-Case Scenarios for the UK National Risk Assessment. <i>Space Weather</i> , 2021, 19, e2020SW002593.	1.3	41
389	ULF Wave Driven Radial Diffusion During Geomagnetic Storms: A Statistical Analysis of Van Allen Probes Observations. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA029024.	0.8	30
391	In Situ Observations of Whistler-Mode Chorus Waves Guided by Density Ducts. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028814.	0.8	26
392	Electron Diffusion and Advection During Nonlinear Interactions With Whistler-Mode Waves. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028793.	0.8	27
393	Modeling the Dynamics of Radiation Belt Electrons With Source and Loss Driven by the Solar Wind. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028988.	0.8	9
394	Rapid Injections of MeV Electrons and Extremely Fast Step-Like Outer Radiation Belt Enhancements. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL093151.	1.5	10
395	Energization of cold ions by electromagnetic ion cyclotron waves: Magnetospheric multiscale (MMS) observations. <i>Physics of Plasmas</i> , 2021, 28, 072901.	0.7	5
396	A "Trap-Release-Amplify" Model of Chorus Waves. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2021JA029585.	0.8	36
397	The Seasonality of VLF Attenuation Through the Ionosphere Verified by DEMETER Satellite. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028383.	0.8	3
398	A Statistical Analysis of Duration and Frequency Chirping Rate of Falling Tone Chorus. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL095349.	1.5	4
399	Quantification of Diffuse Auroral Electron Precipitation Driven by Whistler Mode Waves at Jupiter. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL095457.	1.5	12
400	Inter-Calibrated Measurements of Intense Whistlers by Arase and Van Allen Probes. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2021JA029700.	0.8	6
401	On application of stochastic differential equations for simulation of nonlinear wave-particle resonant interactions. <i>Physics of Plasmas</i> , 2021, 28, .	0.7	10
402	Cross-Coherence of the Outer Radiation Belt During Storms and the Role of the Plasmapause. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2021JA029308.	0.8	5
403	Discrete Rising Tone Elements of Whistler-Mode Waves in the Vicinity of the Moon: ARTEMIS Observations. <i>Geophysical Research Letters</i> , 2021, 48, .	1.5	2

#	ARTICLE	IF	CITATIONS
404	Fundamental Plasma Processes in Saturn's Magnetosphere. , 2009, , 281-331.		59
405	Advances in Plasmaspheric Wave Research with ÅCLUSTER and IMAGE Observations. , 2009, , 137-191.		5
406	A Review of Low Frequency Electromagnetic Wave Phenomena Related to Tropospheric-Ionospheric Coupling Mechanisms. Space Sciences Series of ISSI, 2011, , 551-593.	0.0	5
407	The Relativistic Electron-Proton Telescope (REPT) Instrument on Board the Radiation Belt Storm Probes (RBSP) Spacecraft: Characterization of Earthâ€™s Radiation Belt High-Energy Particle Populations. , 2012, , 337-381.		31
408	Science Objectives and Rationale for the Radiation Belt Storm Probes Mission. , 2012, , 3-27.		53
409	Major radiation environments in the heliosphere and their implications for interplanetary travel. , 2007, , 131-171.		4
410	Wave-particle interactions in the outer radiation belts. Advances in Astronomy and Space Physics, 2015, 5, 68-74.	0.2	1
411	Background Parameter Effects on Linearâ€™Nonlinear Chorus Wave Growth in the Planetary Magnetosphere. Astrophysical Journal, 2020, 904, 105.	1.6	8
412	A Design of Solar Proton Telescope for Next Generation Small Satellite. Journal of Astronomy and Space Sciences, 2012, 29, 343-349.	0.3	7
413	Global estimates of plasmaspheric losses during moderate disturbance intervals. Annales Geophysicae, 2010, 28, 27-36.	0.6	13
414	Study of Oblique Propagating Whistler Mode Waves in Presence of Parallel DC Electric Field in Magnetosphere of Saturn. Advanced Electromagnetics, 2017, 6, 26.	0.7	1
415	A Tale of Two Radiation Belts: The Energyâ€™Dependence of Selfâ€™Limiting Electron Space Radiation. Geophysical Research Letters, 2021, 48, e2021GL095779.	1.5	13
416	Tightening the radiation belts. Nature Physics, 0, , .	6.5	0
417	Remediation of radiation belt electrons caused by ground based man-made VLF wave. Wuli Xuebao/Acta Physica Sinica, 2011, 60, 039401.	0.2	7
418	Relationship between the quasi-linear diffusion coefficients and the key parameters of spatial energetic electrons. Wuli Xuebao/Acta Physica Sinica, 2014, 63, 079401.	0.2	3
419	Radial Diffusion. Springer Theses, 2015, , 41-61.	0.0	0
420	Magnetospheric Convection. Springer Theses, 2015, , 87-99.	0.0	1
421	Diffusing loss effects of radiation belt energetic electrons caused by typical very low frequency electromagnetic wave. Wuli Xuebao/Acta Physica Sinica, 2015, 64, 069401.	0.2	1

#	ARTICLE	IF	CITATIONS
422	Space Weather Effects Produced by the Ring Current Particles. Space Sciences Series of ISSI, 2017, , 431-460.	0.0	0
423	Achievements and Challenges in the Science of Space Weather. Space Sciences Series of ISSI, 2017, , 1-21.	0.0	1
424	Recent Progress on VLF Wave and Its Interactions with Energetic Particles in the Magnetosphere. IOSR Journal of Applied Physics, 2017, 09, 76-81.	0.1	0
425	Radiation and Radiation Disorders. , 2019, , 39-108.		2
426	Particle Source and Loss Processes. Astronomy and Astrophysics Library, 2022, , 159-211.	0.2	1
427	The in-situ exploration of Jupiter's radiation belts. Experimental Astronomy, 2022, 54, 745-789.	1.6	11
428	Testing the Organization of Lower-Band Whistler-Mode Chorus Wave Properties by Plasmapause Location. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA028458.	0.8	5
429	Multi-Parameter Chorus and Plasmaspheric Hiss Wave Models. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA028403.	0.8	10
431	Nonlinear dynamics and phase space transport by chorus emission. Reviews of Modern Plasma Physics, 2021, 5, 1.	2.2	12
432	On the Variability of EMIC Waves and the Consequences for the Relativistic Electron Radiation Belt Population. Journal of Geophysical Research: Space Physics, 2021, 126, e2021JA029754.	0.8	19
433	Electron mirror and cyclotron instabilities for solar wind plasma. Monthly Notices of the Royal Astronomical Society, 2021, 509, 3764-3771.	1.6	13
434	Modelling the Varying Location of Field Line Resonances During Geomagnetic Storms. Journal of Geophysical Research: Space Physics, 0, , .	0.8	2
435	Ground-based all-sky imaging techniques for auroral observations and space weather research. , 2022, , 1-22.		0
436	A Theoretical Framework of Chorus Wave Excitation. Journal of Geophysical Research: Space Physics, 2022, 127, .	0.8	18
437	Energetic Electron Precipitation Driven by the Combined Effect of ULF, EMIC, and Whistler Waves. Journal of Geophysical Research: Space Physics, 2022, 127, .	0.8	9
438	Propagation characteristics of parallel propagating waves in a relativistic magnetized electron plasma. Journal of Plasma Physics, 2022, 88, .	0.7	2
439	Weak Turbulence and Quasilinear Diffusion for Relativistic Wave-Particle Interactions Via a Markov Approach. Frontiers in Astronomy and Space Sciences, 2022, 8, .	1.1	16
440	Electron Dynamics in a Chorus Wave Field Generated From Particle-in-Cell Simulations. Geophysical Research Letters, 2022, 49, .	1.5	22

#	ARTICLE	IF	CITATIONS
441	Acceleration of Electrons by Whistlerâ€Mode Hiss Waves at Saturn. Geophysical Research Letters, 2022, 49, .	1.5	7
442	Immediate Impact of Solar Wind Dynamic Pressure Pulses on Whistlerâ€Mode Chorus Waves in the Inner Magnetosphere. Geophysical Research Letters, 2022, 49, .	1.5	5
443	The study of radiation effects of electrons on multilayer FePS3 based on Laser Plasma Accelerator. Chinese Physics B, 0, , .	0.7	0
444	Superfast precipitation of energetic electrons in the radiation belts of the Earth. Nature Communications, 2022, 13, 1611.	5.8	27
445	A Rapid Localized Deceleration of Earth's Radiation Belt Relativistic Electrons Driven by Storm Proton Injection. Geophysical Research Letters, 2022, 49, .	1.5	1
446	A New Population of Ultraâ€Relativistic Electrons in the Outer Radiation Zone. Journal of Geophysical Research: Space Physics, 2022, 127, .	0.8	13
447	Exceptional middle latitude electron precipitation detected by balloon observations: implications for atmospheric composition. Atmospheric Chemistry and Physics, 2022, 22, 6703-6716.	1.9	7
448	Plasma Imaging, Local Measurement, and Tomographic Experiment (PILOT): A Mission Concept for Transformational Multi-Scale Observations of Mass and Energy Flow Dynamics in Earthâ€™s Magnetosphere. Frontiers in Astronomy and Space Sciences, 0, 9, .	1.1	4
449	Interaction of ion-acoustic solitons for multi-dimensional Zakharov Kuznetsov equation in Van Allen radiation belts. Chaos, Solitons and Fractals, 2022, 161, 112265.	2.5	22
450	Physics of plasmas confined by a dipole magnet: insights from compact experiments driven at steady state. Reviews of Modern Plasma Physics, 2022, 6, .	2.2	3
451	Dataâ€Driven Discovery of Fokkerâ€Planck Equation for the Earth's Radiation Belts Electrons Using Physicsâ€Informed Neural Networks. Journal of Geophysical Research: Space Physics, 2022, 127, .	0.8	8
452	Combined Scattering of Suprathermal Electrons by Whistlerâ€Mode Chorus and Electromagnetic Ion Cyclotron Waves in the Lowâ€Density Plasmatrough. Journal of Geophysical Research: Space Physics, 2022, 127, .	0.8	1
453	First Results of the Wave Measurements by the WHU VLF Wave Detection System at the Chinese Great Wall Station in Antarctica. Journal of Geophysical Research: Space Physics, 2022, 127, .	0.8	6
454	Upper Limit of Outer Radiation Belt Electron Acceleration Driven by Whistlerâ€Mode Chorus Waves. Geophysical Research Letters, 2022, 49, .	1.5	13
455	Nonlinear Electron Phaseâ€Space Dynamics in Spontaneous Excitation of Fallingâ€Tone Chorus. Geophysical Research Letters, 2022, 49, .	1.5	4
456	Differentiating Between the Leading Processes for Electron Radiation Belt Acceleration. Frontiers in Astronomy and Space Sciences, 0, 9, .	1.1	13
457	FARWEST: Efficient Computation of Waveâ€Particle Interactions for a Dynamic Description of the Electron Radiation Belt Diffusion. Journal of Geophysical Research: Space Physics, 2022, 127, .	0.8	4
458	Spectral Properties of Whistlerâ€Mode Waves in the Vicinity of the Moon: A Statistical Study With ARTEMIS. Journal of Geophysical Research: Space Physics, 2022, 127, .	0.8	0

#	ARTICLE	IF	CITATIONS
459	Unraveling the Formation Region and Frequency of Chorus Spectral Gaps. Geophysical Research Letters, 2022, 49, .	1.5	3
460	Temporal variability of quasi-linear pitch-angle diffusion. Frontiers in Astronomy and Space Sciences, 0, 9, .	1.1	2
462	Direct observations of energy transfer from resonant electrons to whistler-mode waves in magnetosheath of Earth. Nature Communications, 2022, 13, .	5.8	3
463	Space Plasma Physics: A Review. IEEE Transactions on Plasma Science, 2023, 51, 1595-1655.	0.6	8
464	Anomalous resonance between low-energy particles and electromagnetic plasma waves. Communications Physics, 2022, 5, .	2.0	2
465	Intense chorus waves are the cause of flux-limiting in the heart of the outer radiation belt. Scientific Reports, 2022, 12, .	1.6	4
466	Central Nervous System Neoplasms in Microgravity. , 2022, , 107-121.		1
467	Rapid Enhancements of Relativistic Electrons in the Earth's Outer Radiation Belt Caused by the Intense Substorms: A Statistical Study. Journal of Geophysical Research: Space Physics, 2023, 128, .	0.8	5
468	Can strong substorm-associated MeV electron injections be an important cause of large radiation belt enhancements?. Frontiers in Astronomy and Space Sciences, 0, 10, .	1.1	2
469	The atmospheric X-ray imaging spectrometer (AXIS) instrument: Quantifying energetic particle precipitation through bremsstrahlung X-ray imaging. Review of Scientific Instruments, 2023, 94, .	0.6	1
470	Study on the Position Diffusion Coefficients of Fokker Planck Equation of Magnetosphere Energetic Particle. Kongjian Kexue Xuebao, 2021, 41, 715.	0.2	0
471	Whistler waves generated inside magnetic dips in the young solar wind: Observations of the search-coil magnetometer on board Parker Solar Probe. Astronomy and Astrophysics, 2023, 672, A135.	2.1	5
472	The wave-particle interactions between chorus waves and electrons in the Earth radiation belts. Journal of Physics: Conference Series, 2023, 2441, 012036.	0.3	0
473	PINE-RT: An operational real-time plasmasphere model. Frontiers in Astronomy and Space Sciences, 0, 10, .	1.1	2
474	Experimental studies on the propagation of whistler-mode waves in a magnetized plasma structure with a non-uniform density. Plasma Science and Technology, 0, , .	0.7	0
475	Influence of Solar Wind Dynamic Pressure on Distribution of Whistler Mode Waves Based on Van Allen Probe Observations. Journal of Geophysical Research: Space Physics, 2023, 128, .	0.8	1
476	Radiation environment and effect detection based on global navigation constellation. Open Astronomy, 2023, 32, .	0.2	1
500	Formation of the Outer Radiation Belt: Adiabatic Effect and Stochastic Acceleration. Springer Proceedings in Earth and Environmental Sciences, 2023, , 313-326.	0.2	0

#	ARTICLE	IF	CITATIONS
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