

Jacob Bortnik

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209
papers

9,548
citations

54
h-index

89
g-index

231
ext. papers

10,894
ext. citations

4.5
avg, IF

6.18
L-index

#	Paper	IF	Citations
209	Rapid local acceleration of relativistic radiation-belt electrons by magnetospheric chorus. <i>Nature</i> , 2013 , 504, 411-4	50.4	481
208	Resonant scattering of plasma sheet electrons by whistler-mode chorus: Contribution to diffuse auroral precipitation. <i>Geophysical Research Letters</i> , 2008 , 35,	4.9	274
207	The unexpected origin of plasmaspheric hiss from discrete chorus emissions. <i>Nature</i> , 2008 , 452, 62-6	50.4	269
206	Global distribution of whistler-mode chorus waves observed on the THEMIS spacecraft. <i>Geophysical Research Letters</i> , 2009 , 36,	4.9	245
205	Identifying the driver of pulsating aurora. <i>Science</i> , 2010 , 330, 81-4	33.3	208
204	Global distribution of wave amplitudes and wave normal angles of chorus waves using THEMIS wave observations. <i>Journal of Geophysical Research</i> , 2011 , 116, n/a-n/a		196
203	THEMIS observations of electromagnetic ion cyclotron wave occurrence: Dependence on AE, SYMH, and solar wind dynamic pressure. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		191
202	Observations of relativistic electron microbursts in association with VLF chorus. <i>Journal of Geophysical Research</i> , 2001 , 106, 6017-6027		191
201	Nonlinear interaction of energetic electrons with large amplitude chorus. <i>Geophysical Research Letters</i> , 2008 , 35,	4.9	169
200	Observation of two distinct, rapid loss mechanisms during the 20 November 2003 radiation belt dropout event. <i>Journal of Geophysical Research</i> , 2006 , 111,		158
199	An observation linking the origin of plasmaspheric hiss to discrete chorus emissions. <i>Science</i> , 2009 , 324, 775-8	33.3	156
198	Resonant scattering and resultant pitch angle evolution of relativistic electrons by plasmaspheric hiss. <i>Journal of Geophysical Research: Space Physics</i> , 2013 , 118, 7740-7751	2.6	150
197	Radiation belt electron acceleration by chorus waves during the 17 March 2013 storm. <i>Journal of Geophysical Research: Space Physics</i> , 2014 , 119, 4681-4693	2.6	146
196	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	2	140
195	Evolution and slow decay of an unusual narrow ring of relativistic electrons near L ~ 3.2 following the September 2012 magnetic storm. <i>Geophysical Research Letters</i> , 2013 , 40, 3507-3511	4.9	137
194	Statistical properties of plasmaspheric hiss derived from Van Allen Probes data and their effects on radiation belt electron dynamics. <i>Journal of Geophysical Research: Space Physics</i> , 2015 , 120, 3393-3405	2.6	132
193	Resonant scattering of outer zone relativistic electrons by multiband EMIC waves and resultant electron loss time scales. <i>Journal of Geophysical Research: Space Physics</i> , 2015 , 120, 7357-7373	2.6	129

192	Transit time scattering of energetic electrons due to equatorially confined magnetosonic waves. <i>Journal of Geophysical Research</i> , 2010 , 115,		124
191	THEMIS analysis of observed equatorial electron distributions responsible for the chorus excitation. <i>Journal of Geophysical Research</i> , 2010 , 115, n/a-n/a		121
190	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, 4526-4534	4.9	119
189	Nonlinear interaction of radiation belt electrons with electromagnetic ion cyclotron waves. <i>Geophysical Research Letters</i> , 2009 , 36,	4.9	108
188	An unusual enhancement of low-frequency plasmaspheric hiss in the outer plasmasphere associated with substorm-injected electrons. <i>Geophysical Research Letters</i> , 2013 , 40, 3798-3803	4.9	105
187	Global distributions of suprathermal electrons observed on THEMIS and potential mechanisms for access into the plasmasphere. <i>Journal of Geophysical Research</i> , 2010 , 115, n/a-n/a		104
186	Modeling the propagation characteristics of chorus using CRRES suprathermal electron fluxes. <i>Journal of Geophysical Research</i> , 2007 , 112, n/a-n/a		96
185	Resonant scattering of energetic electrons by unusual low-frequency hiss. <i>Geophysical Research Letters</i> , 2014 , 41, 1854-1861	4.9	95
184	On the storm-time evolution of relativistic electron phase space density in Earth's outer radiation belt. <i>Journal of Geophysical Research: Space Physics</i> , 2013 , 118, 2196-2212	2.6	94
183	Origins of the Earth's Diffuse Auroral Precipitation. <i>Space Science Reviews</i> , 2016 , 200, 205-259	7.5	92
182	Characteristics of the Poynting flux and wave normal vectors of whistler-mode waves observed on THEMIS. <i>Journal of Geophysical Research: Space Physics</i> , 2013 , 118, 1461-1471	2.6	89
181	Modeling the evolution of chorus waves into plasmaspheric hiss. <i>Journal of Geophysical Research</i> , 2011 , 116, n/a-n/a		87
180	The controlling effect of ion temperature on EMIC wave excitation and scattering. <i>Geophysical Research Letters</i> , 2011 , 38, n/a-n/a	4.9	85
179	Pc1Bc2 waves and energetic particle precipitation during and after magnetic storms: Superposed epoch analysis and case studies. <i>Journal of Geophysical Research</i> , 2008 , 113, n/a-n/a		85
178	Controlled precipitation of radiation belt electrons. <i>Journal of Geophysical Research</i> , 2003 , 108,		85
177	Typical properties of rising and falling tone chorus waves. <i>Geophysical Research Letters</i> , 2011 , 38, n/a-n/a	4.9	84
176	Competing source and loss mechanisms due to wave-particle interactions in Earth's outer radiation belt during the 30 September to 3 October 2012 geomagnetic storm. <i>Journal of Geophysical Research: Space Physics</i> , 2014 , 119, 1960-1979	2.6	83
175	Electron scattering by magnetosonic waves in the inner magnetosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2016 , 121, 274-285	2.6	82

174	Effects of amplitude modulation on nonlinear interactions between electrons and chorus waves. <i>Geophysical Research Letters</i> , 2012 , 39, n/a-n/a	4.9	73
173	Formation of energetic electron butterfly distributions by magnetosonic waves via Landau resonance. <i>Geophysical Research Letters</i> , 2016 , 43, 3009-3016	4.9	73
172	Nonlinear interactions between relativistic radiation belt electrons and oblique whistler mode waves. <i>Nonlinear Processes in Geophysics</i> , 2010 , 17, 599-604	2.9	71
171	Multievent study of the correlation between pulsating aurora and whistler mode chorus emissions. <i>Journal of Geophysical Research</i> , 2011 , 116, n/a-n/a		70
170	New chorus wave properties near the equator from Van Allen Probes wave observations. <i>Geophysical Research Letters</i> , 2016 , 43, 4725-4735	4.9	70
169	Characteristics of hiss-like and discrete whistler-mode emissions. <i>Geophysical Research Letters</i> , 2012 , 39,	4.9	67
168	Modeling the wave normal distribution of chorus waves. <i>Journal of Geophysical Research: Space Physics</i> , 2013 , 118, 1074-1088	2.6	65
167	Three-dimensional ray tracing of VLF waves in a magnetospheric environment containing a plasmaspheric plume. <i>Geophysical Research Letters</i> , 2009 , 36,	4.9	65
166	Amplification of whistler-mode hiss inside the plasmasphere. <i>Geophysical Research Letters</i> , 2012 , 39, n/a-n/a	4.9	64
165	The distribution of plasmaspheric hiss wave power with respect to plasmopause location. <i>Geophysical Research Letters</i> , 2016 , 43, 7878-7886	4.9	62
164	Structures of dayside whistler-mode waves deduced from conjugate diffuse aurora. <i>Journal of Geophysical Research: Space Physics</i> , 2013 , 118, 664-673	2.6	61
163	Comparison of bounce-averaged quasi-linear diffusion coefficients for parallel propagating whistler mode waves with test particle simulations. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		60
162	Statistical analysis of EMIC waves in plasmaspheric plumes from Cluster observations. <i>Journal of Geophysical Research: Space Physics</i> , 2013 , 118, 4946-4951	2.6	60
161	Unraveling the excitation mechanisms of highly oblique lower band chorus waves. <i>Geophysical Research Letters</i> , 2016 , 43, 8867-8875	4.9	58
160	Modeling the properties of plasmaspheric hiss: 1. Dependence on chorus wave emission. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		58
159	Modeling the wave power distribution and characteristics of plasmaspheric hiss. <i>Journal of Geophysical Research</i> , 2011 , 116, n/a-n/a		58
158	Evaluation of whistler mode chorus amplification during an injection event observed on CRRES. <i>Journal of Geophysical Research</i> , 2008 , 113, n/a-n/a		58
157	Nonlinear bounce resonances between magnetosonic waves and equatorially mirroring electrons. <i>Journal of Geophysical Research: Space Physics</i> , 2015 , 120, 6514-6527	2.6	57

156	Landau damping and resultant unidirectional propagation of chorus waves. <i>Geophysical Research Letters</i> , 2006 , 33,	4.9	57
155	Evidence of stronger pitch angle scattering loss caused by oblique whistler-mode waves as compared with quasi-parallel waves. <i>Geophysical Research Letters</i> , 2014 , 41, 6063-6070	4.9	54
154	Comparison of quasilinear diffusion coefficients for parallel propagating whistler mode waves with test particle simulations. <i>Geophysical Research Letters</i> , 2011 , 38, n/a-n/a	4.9	54
153	Quantitative Evaluation of Radial Diffusion and Local Acceleration Processes During GEM Challenge Events. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 1938-1952	2.6	53
152	A novel technique to construct the global distribution of whistler mode chorus wave intensity using low-altitude POES electron data. <i>Journal of Geophysical Research: Space Physics</i> , 2014 , 119, 5685-5699	2.6	52
151	Modulation of whistler mode chorus waves: 1. Role of compressional Pc4B pulsations. <i>Journal of Geophysical Research</i> , 2011 , 116, n/a-n/a		52
150	Radiation belt electron acceleration during the 17 March 2015 geomagnetic storm: Observations and simulations. <i>Journal of Geophysical Research: Space Physics</i> , 2016 , 121, 5520-5536	2.6	52
149	Aspects of Nonlinear Wave-Particle Interactions. <i>Geophysical Monograph Series</i> , 2013 , 255-264	1.1	51
148	An automatic wave detection algorithm applied to Pc1 pulsations. <i>Journal of Geophysical Research</i> , 2007 , 112, n/a-n/a		51
147	Frequency-time spectra of magnetospherically reflecting whistlers in the plasmasphere. <i>Journal of Geophysical Research</i> , 2003 , 108,		51
146	Generation of multiband chorus by lower band cascade in the Earth's magnetosphere. <i>Geophysical Research Letters</i> , 2016 , 43, 2343-2350	4.9	50
145	Global statistical evidence for chorus as the embryonic source of plasmaspheric hiss. <i>Geophysical Research Letters</i> , 2013 , 40, 2891-2896	4.9	49
144	Global Model of Plasmaspheric Hiss From Multiple Satellite Observations. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 4526-4541	2.6	49
143	Chorus wave scattering responsible for the Earth's dayside diffuse auroral precipitation: A detailed case study. <i>Journal of Geophysical Research: Space Physics</i> , 2014 , 119, 897-908	2.6	48
142	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	2	47
141	Modulation of whistler mode chorus waves: 2. Role of density variations. <i>Journal of Geophysical Research</i> , 2011 , 116, n/a-n/a		47
140	Ray tracing of penetrating chorus and its implications for the radiation belts. <i>Geophysical Research Letters</i> , 2007 , 34,	4.9	47
139	New evidence for generation mechanisms of discrete and hiss-like whistler mode waves. <i>Geophysical Research Letters</i> , 2014 , 41, 4805-4811	4.9	46

138	Temporal signatures of radiation belt electron precipitation induced by lightning-generated MR whistler waves: 1. Methodology. <i>Journal of Geophysical Research</i> , 2006 , 111,		46
137	Generation of unusually low frequency plasmaspheric hiss. <i>Geophysical Research Letters</i> , 2014 , 41, 5702-5709	4.9	44
136	Direct evidence for EMIC wave scattering of relativistic electrons in space. <i>Journal of Geophysical Research: Space Physics</i> , 2016 , 121, 6620-6631	2.6	44
135	Nonresonant interactions of electromagnetic ion cyclotron waves with relativistic electrons. <i>Journal of Geophysical Research: Space Physics</i> , 2016 , 121, 9913-9925	2.6	44
134	Temporal signatures of radiation belt electron precipitation induced by lightning-generated MR whistler waves: 2. Global signatures. <i>Journal of Geophysical Research</i> , 2006 , 111,		43
133	Energy distribution and lifetime of magnetospherically reflecting whistlers in the plasmasphere. <i>Journal of Geophysical Research</i> , 2003 , 108,		40
132	Statistical distribution of EMIC wave spectra: Observations from Van Allen Probes. <i>Geophysical Research Letters</i> , 2016 , 43, 12,348	4.9	40
131	The relationship between the macroscopic state of electrons and the properties of chorus waves observed by the Van Allen Probes. <i>Geophysical Research Letters</i> , 2016 , 43, 7804-7812	4.9	40
130	Statistical properties of low-frequency plasmaspheric hiss. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 8340-8352	2.6	39
129	Solar wind conditions leading to efficient radiation belt electron acceleration: A superposed epoch analysis. <i>Geophysical Research Letters</i> , 2015 , 42, 6906-6915	4.9	39
128	First evidence for chorus at a large geocentric distance as a source of plasmaspheric hiss: Coordinated THEMIS and Van Allen Probes observation. <i>Geophysical Research Letters</i> , 2015 , 42, 241-248	4.9	39
127	Characteristic energy range of electron scattering due to plasmaspheric hiss. <i>Journal of Geophysical Research: Space Physics</i> , 2016 , 121, 11,737	2.6	39
126	Excitation of Chirping Whistler Waves in a Laboratory Plasma. <i>Physical Review Letters</i> , 2015 , 114, 245002	7.4	38
125	Properties of Intense Field-Aligned Lower-Band Chorus Waves: Implications for Nonlinear Wave-Particle Interactions. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 5379-5393	2.6	37
124	Nonlinear evolution of EMIC waves in a uniform magnetic field: 1. Hybrid simulations. <i>Journal of Geophysical Research</i> , 2010 , 115, n/a-n/a		37
123	Modulation of plasmaspheric hiss intensity by thermal plasma density structure. <i>Geophysical Research Letters</i> , 2012 , 39, n/a-n/a	4.9	35
122	Electron Nonlinear Resonant Interaction With Short and Intense Parallel Chorus Wave Packets. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 4979-4999	2.6	35
121	Bounce resonance scattering of radiation belt electrons by H+ band EMIC waves. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 1702-1713	2.6	34

120	Precipitation signatures of ground-based VLF transmitters. <i>Journal of Geophysical Research</i> , 2008 , 113, n/a-n/a		34
119	Lightning-induced energetic electron flux enhancements in the drift loss cone. <i>Journal of Geophysical Research</i> , 2001 , 106, 29733-29744		34
118	Quantifying hiss-driven energetic electron precipitation: A detailed conjunction event analysis. <i>Geophysical Research Letters</i> , 2014 , 41, 1085-1092	4.9	33
117	The effect of different solar wind parameters upon significant relativistic electron flux dropouts in the magnetosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2015 , 120, 4324-4337	2.6	33
116	Impact of cold O ⁺ ions on the generation and evolution of EMIC waves. <i>Journal of Geophysical Research: Space Physics</i> , 2013 , 118, 434-445	2.6	32
115	Modeling the properties of plasmaspheric hiss: 2. Dependence on the plasma density distribution. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		32
114	Plasmaspheric hiss overview and relation to chorus. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2009 , 71, 1636-1646	2	32
113	Analytical approximation of transit time scattering due to magnetosonic waves. <i>Geophysical Research Letters</i> , 2015 , 42, 1318-1325	4.9	31
112	The Composition of Plasma inside Geostationary Orbit Based on Van Allen Probes Observations. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 6478-6493	2.6	31
111	Ultrarelativistic electron butterfly distributions created by parallel acceleration due to magnetosonic waves. <i>Journal of Geophysical Research: Space Physics</i> , 2016 , 121, 3212-3222	2.6	31
110	A neural network model of three-dimensional dynamic electron density in the inner magnetosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 9183-9197	2.6	30
109	Nonlinear Electron Interaction With Intense Chorus Waves: Statistics of Occurrence Rates. <i>Geophysical Research Letters</i> , 2019 , 46, 7182-7190	4.9	29
108	Origin of two-band chorus in the radiation belt of Earth. <i>Nature Communications</i> , 2019 , 10, 4672	17.4	29
107	Saturation characteristics of electromagnetic ion cyclotron waves. <i>Journal of Geophysical Research</i> , 2011 , 116, n/a-n/a		29
106	A unified approach to inner magnetospheric state prediction. <i>Journal of Geophysical Research: Space Physics</i> , 2016 , 121, 2423-2430	2.6	29
105	Power line harmonic radiation observed by satellite: Properties and propagation through the ionosphere. <i>Journal of Geophysical Research</i> , 2008 , 113, n/a-n/a		28
104	On the parameter dependence of the whistler anisotropy instability. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 2001-2009	2.6	27
103	Characteristics of low-latitude Pc1 pulsations during geomagnetic storms. <i>Journal of Geophysical Research</i> , 2008 , 113, n/a-n/a		27

102	Electron butterfly distribution modulation by magnetosonic waves. <i>Geophysical Research Letters</i> , 2016 , 43, 3051-3059	4.9	27
101	A Statistical Study of EMIC Waves Associated With and Without Energetic Particle Injection From the Magnetotail. <i>Journal of Geophysical Research: Space Physics</i> , 2019 , 124, 433-450	2.6	26
100	Pitch Angle Scattering of Sub-MeV Relativistic Electrons by Electromagnetic Ion Cyclotron Waves. <i>Journal of Geophysical Research: Space Physics</i> , 2019 , 124, 5610-5626	2.6	26
99	PENGUIN/AGO and THEMIS conjugate observations of whistler mode chorus waves in the dayside uniform zone under steady solar wind and quiet geomagnetic conditions. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		26
98	Strong enhancement of 10-100 keV electron fluxes by combined effects of chorus waves and time domain structures. <i>Geophysical Research Letters</i> , 2016 , 43, 4683-4690	4.9	26
97	Resonant excitation of whistler waves by a helical electron beam. <i>Geophysical Research Letters</i> , 2016 , 43, 2413-2421	4.9	25
96	Excitation of dayside chorus waves due to magnetic field line compression in response to interplanetary shocks. <i>Journal of Geophysical Research: Space Physics</i> , 2015 , 120, 8327-8338	2.6	25
95	Ion Heating by Electromagnetic Ion Cyclotron Waves and Magnetosonic Waves in the Earth's Inner Magnetosphere. <i>Geophysical Research Letters</i> , 2019 , 46, 6258-6267	4.9	24
94	The Relationship Between EMIC Wave Properties and Proton Distributions Based on Van Allen Probes Observations. <i>Geophysical Research Letters</i> , 2019 , 46, 4070-4078	4.9	23
93	Variance of transionospheric VLF wave power absorption. <i>Journal of Geophysical Research</i> , 2010 , 115,		23
92	Relativistic microburst storm characteristics: Combined satellite and ground-based observations. <i>Journal of Geophysical Research</i> , 2010 , 115, n/a-n/a		23
91	Empirically Estimated Electron Lifetimes in the Earth's Radiation Belts: Comparison With Theory. <i>Geophysical Research Letters</i> , 2020 , 47, e2019GL086056	4.9	23
90	Erosion and refilling of the plasmasphere during a geomagnetic storm modeled by a neural network. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 7118-7129	2.6	22
89	Electrostatic and whistler instabilities excited by an electron beam. <i>Physics of Plasmas</i> , 2017 , 24, 072116	2.1	22
88	The Characteristic Pitch Angle Distributions of 1 eV to 600 keV Protons Near the Equator Based On Van Allen Probes Observations. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 9464-9473	2.6	21
87	The Characteristic Response of Whistler Mode Waves to Interplanetary Shocks. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 10,047	2.6	21
86	Hybrid simulations of EMIC waves in a dipolar magnetic field. <i>Journal of Geophysical Research</i> , 2011 , 116, n/a-n/a		21
85	Nonlinear Interactions Between Radiation Belt Electrons and Chorus Waves: Dependence on Wave Amplitude Modulation. <i>Geophysical Research Letters</i> , 2020 , 47, e2019GL085987	4.9	20

84	Rapid enhancement of low-energy (. <i>Journal of Geophysical Research: Space Physics</i> , 2016 , 121, 6430-6443.6	20
83	Nonlinear evolution of EMIC waves in a uniform magnetic field: 2. Test-particle scattering. <i>Journal of Geophysical Research</i> , 2010 , 115, n/a-n/a	20
82	Storm time, short-lived bursts of relativistic electron precipitation detected by subionospheric radio wave propagation. <i>Journal of Geophysical Research</i> , 2007 , 112, n/a-n/a	20
81	Empirically Estimated Electron Lifetimes in the Earth's Radiation Belts: Van Allen Probe Observations. <i>Geophysical Research Letters</i> , 2020 , 47, e2019GL086053	4.9 19
80	Oxygen Ion Dynamics in the Earth's Ring Current: Van Allen Probes Observations. <i>Journal of Geophysical Research: Space Physics</i> , 2019 , 124, 7786-7798	2.6 19
79	Unified View of Nonlinear Wave Structures Associated with Whistler-Mode Chorus. <i>Physical Review Letters</i> , 2019 , 122, 045101	7.4 18
78	High-Frequency Communications Response to Solar Activity in September 2017 as Observed by Amateur Radio Networks. <i>Space Weather</i> , 2019 , 17, 118-132	3.7 18
77	Global Model of Whistler Mode Chorus in the Near-Equatorial Region (Θ). <i>Geophysical Research Letters</i> , 2020 , 47, e2020GL087311	4.9 18
76	Effects of discreteness of chorus waves on quasilinear diffusion-based modeling of energetic electron dynamics. <i>Journal of Geophysical Research: Space Physics</i> , 2014 , 119, 8848-8857	2.6 17
75	L dependence of energetic electron precipitation driven by magnetospherically reflecting whistler waves. <i>Journal of Geophysical Research</i> , 2002 , 107, SMP 1-1-SMP 1-13	16
74	EMIC Wave Properties Associated With and Without Injections in The Inner Magnetosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2019 , 124, 2029-2045	2.6 15
73	Relativistic Electron Microburst Events: Modeling the Atmospheric Impact. <i>Geophysical Research Letters</i> , 2018 , 45, 1141-1147	4.9 15
72	Direct detection of resonant electron pitch angle scattering by whistler waves in a laboratory plasma. <i>Physical Review Letters</i> , 2014 , 112, 145006	7.4 15
71	Chorus Wave Modulation of Langmuir Waves in the Radiation Belts. <i>Geophysical Research Letters</i> , 2017 , 44, 11,713-11,721	4.9 15
70	Transitional behavior of different energy protons based on Van Allen Probes observations. <i>Geophysical Research Letters</i> , 2017 , 44, 625-633	4.9 14
69	Physical mechanism causing rapid changes in ultrarelativistic electron pitch angle distributions right after a shock arrival: Evaluation of an electron dropout event. <i>Journal of Geophysical Research: Space Physics</i> , 2016 , 121, 8300-8316	2.6 14
68	Laboratory simulation of magnetospheric chorus wave generation. <i>Plasma Physics and Controlled Fusion</i> , 2017 , 59, 014016	2 14
67	Very-Low-Frequency transmitters bifurcate energetic electron belt in near-earth space. <i>Nature Communications</i> , 2020 , 11, 4847	17.4 14

66	Local Excitation of Whistler Mode Waves and Associated Langmuir Waves at Dayside Reconnection Regions. <i>Geophysical Research Letters</i> , 2018 , 45, 8793-8802	4.9	14
65	The possible statistical relation of Pc1 pulsations to Earthquake occurrence at low latitudes. <i>Annales Geophysicae</i> , 2008 , 26, 2825-2836	2	13
64	Plasmaspheric Hiss: Coherent and Intense. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 10,009-10,029	2.6	13
63	Resonant Scattering of Near-Equatorially Mirroring Electrons by Landau Resonance With H+ Band EMIC Waves. <i>Geophysical Research Letters</i> , 2018 , 45, 10,866	4.9	13
62	Pitch Angle Dependence of Energetic Electron Precipitation: Energy Deposition, Backscatter, and the Bounce Loss Cone. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 2412	2.6	12
61	Resonance of relativistic electrons with electromagnetic ion cyclotron waves. <i>Geophysical Research Letters</i> , 2015 , 42, 8263-8270	4.9	12
60	The Modulation of Plasma and Waves by Background Electron Density Irregularities in the Inner Magnetosphere. <i>Geophysical Research Letters</i> , 2020 , 47, e2020GL088855	4.9	12
59	Zipper-like periodic magnetosonic waves: Van Allen Probes, THEMIS, and magnetospheric multiscale observations. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 1600-1610	2.6	11
58	Diffusive Transport of Several Hundred keV Electrons in the Earth's Slot Region. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 10,235	2.6	11
57	Comparison of formulas for resonant interactions between energetic electrons and oblique whistler-mode waves. <i>Physics of Plasmas</i> , 2015 , 22, 052902	2.1	11
56	Comment on Pulsating Auroras Produced by Interactions of Electrons and Time Domain Structures by Mozer Et Al.. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 2064-2070	2.6	11
55	Longitudinal Dependence of Whistler Mode Electromagnetic Waves in the Earth's Inner Magnetosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 6562-6575	2.6	11
54	Properties of Lightning Generated Whistlers Based on Van Allen Probes Observations and Their Global Effects on Radiation Belt Electron Loss. <i>Geophysical Research Letters</i> , 2020 , 47, e2020GL089584	4.9	11
53	Interplanetary Parameters Leading to Relativistic Electron Enhancement and Persistent Depletion Events at Geosynchronous Orbit and Potential for Prediction. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 1134-1145	2.6	10
52	Artificial Neural Networks for Determining Magnetospheric Conditions 2018 , 279-300		10
51	Coordinated observations of two types of diffuse auroras near magnetic local noon by Magnetospheric Multiscale mission and ground all-sky camera. <i>Geophysical Research Letters</i> , 2017 , 44, 8130-8139	4.9	10
50	Chorus intensity modulation driven by time-varying field-aligned low-energy plasma. <i>Journal of Geophysical Research: Space Physics</i> , 2015 , 120, 7433-7446	2.6	10
49	Parallel Acceleration of Suprathermal Electrons Caused by Whistler-Mode Hiss Waves. <i>Geophysical Research Letters</i> , 2019 , 46, 12675-12684	4.9	10

48	Coherently modulated whistler mode waves simultaneously observed over unexpectedly large spatial scales. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 1871-1882	2.6	9
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