H E Spence

List of Publications by Year
in descending order

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430 papers	19,257 citations	12303 69 h-index	21474 114 g-index
444 all docs	444 docs citations	444 times ranked	4427 citing authors

#	Article	IF	Citations
1	Rapid local acceleration of relativistic radiation-belt electrons by magnetospheric chorus. Nature, 2013, 504, 411-414.	13.7	608
2	The Magnetic Electron Ion Spectrometer (MagEIS) Instruments Aboard the Radiation Belt Storm Probes (RBSP) Spacecraft. Space Science Reviews, 2013, 179, 383-421.	3.7	491
3	Electron Acceleration in the Heart of the Van Allen Radiation Belts. Science, 2013, 341, 991-994.	6.0	463
4	Science Goals and Overview of the Radiation Belt Storm Probes (RBSP) Energetic Particle, Composition, and Thermal Plasma (ECT) Suite on NASAâ€™s Van Allen Probes Mission. Space Science Reviews, 2013, 179, 311-336.	3.7	463
5	Helium, Oxygen, Proton, and Electron (HOPE) Mass Spectrometer for the Radiation Belt Storm Probes Mission. Space Science Reviews, 2013, 179, 423-484.	3.7	459
6	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. Space Science Reviews, 2013, 179, 337-381.	3.7	334
7	Lunar Reconnaissance Orbiter Overview: TheÂInstrument Suite and Mission. Space Science Reviews, 2007, 129, 391-419.	3.7	322
8	Effect of EMIC waves on relativistic and ultrarelativistic electron populations: Groundâ€based and Van Allen Probes observations. Geophysical Research Letters, 2014, 41, 1375-1381.	1.5	294
9	ULF waves in the solar wind as direct drivers of magnetospheric pulsations. Geophysical Research Letters, 2002, 29, 39-1-39-4.	1.5	256
10	A Long-Lived Relativistic Electron Storage Ring Embedded in Earthâ€™s Outer Van Allen Belt. Science, 2013, 340, 186-190.	6.0	216
11	Source and seed populations for relativistic electrons: Their roles in radiation belt changes. Journal of Geophysical Research: Space Physics, 2015, 120, 7240-7254.	0.8	215
12	Observations of discrete, global magnetospheric oscillations directly driven by solar wind density variations. Journal of Geophysical Research, 2003, 108, .	3.3	213
13	The occurrence and wave properties of H⁺â€, He⁺â€, and O⁺â€band EMIC waves observed by the Van Allen Probes. Journal of Geophysical Research: Space Physics, 2015, 120, 7477-7492.	0.8	184
14	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
15	Characteristics of ion flow in the quiet state of the inner plasma sheet. Geophysical Research Letters, 1993, 20, 1711-1714.	1.5	177
16	Energyâ€dependent dynamics of keV to MeV electrons in the inner zone, outer zone, and slot regions. Journal of Geophysical Research: Space Physics, 2016, 121, 397-412.	0.8	152
17	CEPPAD. Space Science Reviews, 1995, 71, 531-562.	3.7	150
18	Evolution and slow decay of an unusual narrow ring of relativistic electrons near Lâ€‰~â€‰3.2 following the September 2012 magnetic storm. Geophysical Research Letters, 2013, 40, 3507-3511.	1.5	150

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19	Wave-driven butterfly distribution of Van Allen belt relativistic electrons. Nature Communications, 2015, 6, 8590.	5.8	148
20	Coronal mass ejections, magnetic clouds, and relativistic magnetospheric electron events: ISTP. Journal of Geophysical Research, 1998, 103, 17279-17291.	3.3	144
21	Cusp energetic particle events: Implications for a major acceleration region of the magnetosphere. Journal of Geophysical Research, 1998, 103, 69-78.	3.3	143
22	Magnetospheric plasma pressures in the midnight meridian: Observations from 2.5 to 35 R_E. Journal of Geophysical Research, 1989, 94, 5264-5272.	3.3	137
23	Eventâ€specific chorus wave and electron seed population models in DREAM3D using the Van Allen Probes. Geophysical Research Letters, 2014, 41, 1359-1366.	1.5	136
24	A statistical study of EMIC waves observed by Cluster: 1. Wave properties. Journal of Geophysical Research: Space Physics, 2015, 120, 5574-5592.	0.8	136
25	Excitation of poloidal standing AlfvÃ©n waves through drift resonance waveâ€particle interaction. Geophysical Research Letters, 2013, 40, 4127-4132.	1.5	134
26	The average magnetic field draping and consistent plasma properties of the Venus magnetotail. Journal of Geophysical Research, 1986, 91, 7939-7953.	3.3	133
27	Recurrent geomagnetic storms and relativistic electron enhancements in the outer magnetosphere: ISTP coordinated measurements. Journal of Geophysical Research, 1997, 102, 14141-14148.	3.3	133
28	Interstellar Mapping and Acceleration Probe (IMAP): A New NASA Mission. Space Science Reviews, 2018, 214, 1.	3.7	129
29	Van Allen Probes observation of localized drift resonance between poloidal mode ultraâ€low frequency waves and 60 keV electrons. Geophysical Research Letters, 2013, 40, 4491-4497.	1.5	127
30	Gradual diffusion and punctuated phase space density enhancements of highly relativistic electrons: Van Allen Probes observations. Geophysical Research Letters, 2014, 41, 1351-1358.	1.5	127
31	Van Allen probes, NOAA, GOES, and ground observations of an intense EMIC wave event extending over 12 h in magnetic local time. Journal of Geophysical Research: Space Physics, 2015, 120, 5465-5488.	0.8	127
32	Wave-induced loss of ultra-relativistic electrons in the Van Allen radiation belts. Nature Communications, 2016, 7, 12883.	5.8	127
33	CRaTER: The Cosmic Ray Telescope for the Effects ofÂRadiation Experiment on the Lunar Reconnaissance Orbiter Mission. Space Science Reviews, 2010, 150, 243-284.	3.7	123
34	An unusual enhancement of lowâ€frequency plasmaspheric hiss in the outer plasmasphere associated with substormâ€injected electrons. Geophysical Research Letters, 2013, 40, 3798-3803.	1.5	120
35	The Energetic Particle Detector (EPD) Investigation and the Energetic Ion Spectrometer (EIS) for the Magnetospheric Multiscale (MMS) Mission. Space Science Reviews, 2016, 199, 471-514.	3.7	111
36	On the cause and extent of outer radiation belt losses during the 30 September 2012 dropout event. Journal of Geophysical Research: Space Physics, 2014, 119, 1530-1540.	0.8	110

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37	Resonant scattering of energetic electrons by unusual low-frequency hiss. Geophysical Research Letters, 2014, 41, 1854-1861.	1.5	110
38	Van Allen Probes show that the inner radiation zone contains no MeV electrons: ECT/MagEIS data. Geophysical Research Letters, 2015, 42, 1283-1289.	1.5	109
39	Heliospheric plasma sheets. Journal of Geophysical Research, 2004, 109, .	3.3	107
40	Quantifying the radiation belt seed population in the 17 March 2013 electron acceleration event. Geophysical Research Letters, 2014, 41, 2275-2281.	1.5	107
41	Metrics for solar wind prediction models: Comparison of empirical, hybrid, and physicsâ€based schemes with 8 years of L1 observations. Space Weather, 2008, 6, .	1.3	105
42	Discovery of the action of a geophysical synchrotron in the Earthâ€™s Van Allen radiation belts. Nature Communications, 2013, 4, .	5.8	104
43	Shockâ€induced prompt relativistic electron acceleration in the inner magnetosphere. Journal of Geophysical Research: Space Physics, 2015, 120, 1661-1674.	0.8	104
44	Competing source and loss mechanisms due to waveâ€particle interactions in Earth's outer radiation belt during the 30 September to 3 October 2012 geomagnetic storm. Journal of Geophysical Research: Space Physics, 2014, 119, 1960-1979.	0.8	103
45	First energetic neutral atom images from Polar. Geophysical Research Letters, 1997, 24, 1167-1170.	1.5	101
46	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
47	On the possibility of quasiâ€static convection in the quiet magnetotail. Geophysical Research Letters, 1988, 15, 1541-1544.	1.5	98
48	Explaining the dynamics of the ultra-relativistic third Van Allen radiation belt. Nature Physics, 2016, 12, 978-983.	6.5	97
49	The global response of relativistic radiation belt electrons to the January 1997 magnetic cloud. Geophysical Research Letters, 1998, 25, 3265-3268.	1.5	96
50	Observations Directly Linking Relativistic Electron Microbursts to Whistler Mode Chorus: Van Allen Probes and FIREBIRD II. Geophysical Research Letters, 2017, 44, 11,265.	1.5	96
51	Simulation of Van Allen Probes plasmapause encounters. Journal of Geophysical Research: Space Physics, 2014, 119, 7464-7484.	0.8	95
52	Contributions of the lowâ€latitude boundary layer to the finite width magnetotail convection model. Journal of Geophysical Research, 1993, 98, 15487-15496.	3.3	94
53	Highly relativistic radiation belt electron acceleration, transport, and loss: Large solar storm events of March and June 2015. Journal of Geophysical Research: Space Physics, 2016, 121, 6647-6660.	0.8	93
54	Unraveling the drivers of the storm time radiation belt response. Geophysical Research Letters, 2015, 42, 3076-3084.	1.5	90

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55	AMPTE/CCE-SCATHA simultaneous observations of substorm-associated magnetic fluctuations. Journal of Geophysical Research, 1998, 103, 4671-4682.	3.3	89
56	The Flyâ€™s Eye Energetic Particle Spectrometer (FEEPS) Sensors for the Magnetospheric Multiscale (MMS) Mission. Space Science Reviews, 2016, 199, 309-329.	3.7	89
57	Prompt energization of relativistic and highly relativistic electrons during a substorm interval: Van Allen Probes observations. Geophysical Research Letters, 2014, 41, 20-25.	1.5	88
58	Formation of energetic electron butterfly distributions by magnetosonic waves via Landau resonance. Geophysical Research Letters, 2016, 43, 3009-3016.	1.5	88
59	Modeling inward diffusion and slow decay of energetic electrons in the Earth's outer radiation belt. Geophysical Research Letters, 2015, 42, 987-995.	1.5	87
60	A new, temporarily confined population in the polar cap during the August 27, 1996 geomagnetic field distortion period. Geophysical Research Letters, 1997, 24, 1447-1450.	1.5	86
61	An event-based approach to validating solar wind speed predictions: High-speed enhancements in the Wang-Sheeley-Arge model. Journal of Geophysical Research, 2005, 110, .	3.3	86
62	Quantitative Evaluation of Radial Diffusion and Local Acceleration Processes During GEM Challenge Events. Journal of Geophysical Research: Space Physics, 2018, 123, 1938-1952.	0.8	86
63	The discovery of trapped energetic electrons in the outer cusp. Geophysical Research Letters, 1998, 25, 1825-1828.	1.5	85
64	The Response of Earth's Electron Radiation Belts to Geomagnetic Storms: Statistics From the Van Allen Probes Era Including Effects From Different Storm Drivers. Journal of Geophysical Research: Space Physics, 2019, 124, 1013-1034.	0.8	84
65	Relative occurrence rates and connection of discrete frequency oscillations in the solar wind density and dayside magnetosphere. Journal of Geophysical Research, 2009, 114, .	3.3	82
66	Investigation of EMIC wave scattering as the cause for the BARREL 17 January 2013 relativistic electron precipitation event: A quantitative comparison of simulation with observations. Geophysical Research Letters, 2014, 41, 8722-8729.	1.5	78
67	A background correction algorithm for Van Allen Probes MagEIS electron flux measurements. Journal of Geophysical Research: Space Physics, 2015, 120, 5703-5727.	0.8	78
68	Radiation belt electron acceleration during the 17 March 2015 geomagnetic storm: Observations and simulations. Journal of Geophysical Research: Space Physics, 2016, 121, 5520-5536.	0.8	77
69	The dependence on geomagnetic conditions and solar wind dynamic pressure of the spatial distributions of EMIC waves observed by the Van Allen Probes. Journal of Geophysical Research: Space Physics, 2016, 121, 4362-4377.	0.8	76
70	Unraveling the excitation mechanisms of highly oblique lower band chorus waves. Geophysical Research Letters, 2016, 43, 8867-8875.	1.5	75
71	Ultra-low-frequency wave-driven diffusion of radiation belt relativistic electrons. Nature Communications, 2015, 6, 10096.	5.8	71
72	What Causes Radiation Belt Enhancements: A Survey of the Van Allen Probes Era. Geophysical Research Letters, 2018, 45, 5253-5259.	1.5	71

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73	The evolution of ring current ion energy density and energy content during geomagnetic storms based on Van Allen Probes measurements. Journal of Geophysical Research: Space Physics, 2015, 120, 7493-7511.	0.8	70
74	The global pattern of evolution of plasmaspheric drainage plumes. Geophysical Monograph Series, 2005, , 1-22.	0.1	69
75	Prompt acceleration of magnetospheric electrons to ultrarelativistic energies by the 17 March 2015 interplanetary shock. Journal of Geophysical Research: Space Physics, 2016, 121, 7622-7635.	0.8	68
76	Lunar radiation environment and space weathering from the Cosmic Ray Telescope for the Effects of Radiation (CRaTER). Journal of Geophysical Research, 2012, 117, .	3.3	67
77	Combined convective and diffusive simulations: VERBâ€4D comparison with 17 March 2013 Van Allen Probes observations. Geophysical Research Letters, 2015, 42, 9600-9608.	1.5	67
78	Energetic, relativistic, and ultrarelativistic electrons: Comparison of longâ€term VERB code simulations with Van Allen Probes measurements. Journal of Geophysical Research: Space Physics, 2015, 120, 3574-3587.	0.8	67
79	Direct evidence for EMIC wave scattering of relativistic electrons in space. Journal of Geophysical Research: Space Physics, 2016, 121, 6620-6631.	0.8	67
80	First multipoint in situ observations of electron microbursts: Initial results from the NSF FIREBIRD II mission. Journal of Geophysical Research: Space Physics, 2016, 121, 5272-5283.	0.8	67
81	Ion observations from geosynchronous orbit as a proxy for ion cyclotron wave growth during storm times. Journal of Geophysical Research, 2009, 114, .	3.3	66
82	Dipolarizing flux bundles in the cisâ€geosynchronous magnetosphere: Relationship between electric fields and energetic particle injections. Journal of Geophysical Research: Space Physics, 2016, 121, 1362-1376.	0.8	66
83	The Global Statistical Response of the Outer Radiation Belt During Geomagnetic Storms. Geophysical Research Letters, 2018, 45, 3783-3792.	1.5	66
84	First results from CSSWE CubeSat: Characteristics of relativistic electrons in the nearâ€Earth environment during the October 2012 magnetic storms. Journal of Geophysical Research: Space Physics, 2013, 118, 6489-6499.	0.8	65
85	The source of O⁺ in the storm time ring current. Journal of Geophysical Research: Space Physics, 2016, 121, 5333-5349.	0.8	63
86	A statistical study of the global structure of the ring current. Journal of Geophysical Research, 2004, 109, .	3.3	62
87	Solar proton events for 450 years: The Carrington event in perspective. Advances in Space Research, 2006, 38, 232-238.	1.2	62
88	Earth-Moon-Mars Radiation Environment Module framework. Space Weather, 2010, 8, n/a-n/a.	1.3	62
89	Nearâ€Earth injection of MeV electrons associated with intense dipolarization electric fields: Van Allen Probes observations. Geophysical Research Letters, 2015, 42, 6170-6179.	1.5	62
90	Nonstorm time dynamics of electron radiation belts observed by the Van Allen Probes. Geophysical Research Letters, 2014, 41, 229-235.	1.5	60

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91	Interactions of energetic electrons with ULF waves triggered by interplanetary shock: Van Allen Probes observations in the magnetotail. Journal of Geophysical Research: Space Physics, 2014, 119, 8262-8273.	0.8	57
92	ULF waves in the lowâ€latitude boundary layer and their relationship to magnetospheric pulsations: A multisatellite observation. Journal of Geophysical Research, 1991, 96, 9503-9519.	3.3	56
93	Examining Periodic Solar-Wind Density Structures Observed in the SECCHI Heliospheric Imagers. Solar Physics, 2010, 267, 175-202.	1.0	56
94	Generation of unusually low frequency plasmaspheric hiss. Geophysical Research Letters, 2014, 41, 5702-5709.	1.5	56
95	Does the worsening galactic cosmic radiation environment observed by CRaTER preclude future manned deep space exploration?. Space Weather, 2014, 12, 622-632.	1.3	55
96	Excitation of EMIC waves detected by the Van Allen Probes on 28 April 2013. Geophysical Research Letters, 2014, 41, 4101-4108.	1.5	55
97	PARTICLE ACCELERATION AT LOW CORONAL COMPRESSION REGIONS AND SHOCKS. Astrophysical Journal, 2015, 810, 97.	1.6	55
98	Characteristic energy range of electron scattering due to plasmaspheric hiss. Journal of Geophysical Research: Space Physics, 2016, 121, 11,737.	0.8	54
99	Empirical modeling of the quiet time nightside magnetosphere. Journal of Geophysical Research, 1994, 99, 151.	3.3	53
100	Global energetic neutral atom (ENA) measurements and their association with theDstindex. Geophysical Research Letters, 1997, 24, 3173-3176.	1.5	53
101	Cusp energetic ions: A bow shock source. Geophysical Research Letters, 1998, 25, 3729-3732.	1.5	53
102	Relative timing of substorm onset phenomena. Journal of Geophysical Research, 2004, 109, .	3.3	53
103	Relativistic electron dynamics produced by azimuthally localized poloidal mode ULF waves: Boomerangâ€shaped pitch angle evolutions. Geophysical Research Letters, 2017, 44, 7618-7627.	1.5	53
104	Ring current electron dynamics during geomagnetic storms based on the Van Allen Probes measurements. Journal of Geophysical Research: Space Physics, 2016, 121, 3333-3346.	0.8	52
105	Origin of two-band chorus in the radiation belt of Earth. Nature Communications, 2019, 10, 4672.	5.8	52
106	The trapping of equatorial magnetosonic waves in the Earth's outer plasmasphere. Geophysical Research Letters, 2014, 41, 6307-6313.	1.5	51
107	Statistical properties of the radiation belt seed population. Journal of Geophysical Research: Space Physics, 2016, 121, 7636-7646.	0.8	51
108	Energy limits of electron acceleration in the plasma sheet during substorms: A case study with the Magnetospheric Multiscale (MMS) mission. Geophysical Research Letters, 2016, 43, 7785-7794.	1.5	51

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109	Modeling radiation belt radial diffusion in ULF wave fields: 2. Estimating rates of radial diffusion using combined MHD and particle codes. Journal of Geophysical Research, 2010, 115, .	3.3	50
110	Correlated Pc4â€“5 ULF waves, whistlerâ€mode chorus, and pulsating aurora observed by the Van Allen Probes and groundâ€based systems. Journal of Geophysical Research: Space Physics, 2015, 120, 8749-8761.	0.8	50
111	Simulation of energyâ€dependent electron diffusion processes in the Earth's outer radiation belt. Journal of Geophysical Research: Space Physics, 2016, 121, 4217-4231.	0.8	50
112	Energetic Electron Precipitation: Multievent Analysis of Its Spatial Extent During EMIC Wave Activity. Journal of Geophysical Research: Space Physics, 2019, 124, 2466-2483.	0.8	50
113	Intense duskside lower band chorus waves observed by Van Allen Probes: Generation and potential acceleration effect on radiation belt electrons. Journal of Geophysical Research: Space Physics, 2014, 119, 4266-4273.	0.8	49
114	Nonstorm time dropout of radiation belt electron fluxes on 24 September 2013. Journal of Geophysical Research: Space Physics, 2016, 121, 6400-6416.	0.8	49
115	Solar wind conditions leading to efficient radiation belt electron acceleration: A superposed epoch analysis. Geophysical Research Letters, 2015, 42, 6906-6915.	1.5	48
116	Ion Heating by Electromagnetic Ion Cyclotron Waves and Magnetosonic Waves in the Earth's Inner Magnetosphere. Geophysical Research Letters, 2019, 46, 6258-6267.	1.5	48
117	Globalâ€Scale ULF Waves Associated With SSC Accelerate Magnetospheric Ultrarelativistic Electrons. Journal of Geophysical Research: Space Physics, 2019, 124, 1525-1538.	0.8	48
118	Roles of whistler mode waves and magnetosonic waves in changing the outer radiation belt and the slot region. Journal of Geophysical Research: Space Physics, 2017, 122, 5431-5448.	0.8	47
119	The Composition of Plasma inside Geostationary Orbit Based on Van Allen Probes Observations. Journal of Geophysical Research: Space Physics, 2018, 123, 6478-6493.	0.8	47
120	Suprathermal electron isotropy in high-beta solar wind and its role in heat flux dropouts. Geophysical Research Letters, 2003, 30, .	1.5	46
121	Extreme geomagnetic disturbances due to shocks within CMEs. Geophysical Research Letters, 2015, 42, 4694-4701.	1.5	46
122	Formation of the oxygen torus in the inner magnetosphere: Van Allen Probes observations. Journal of Geophysical Research: Space Physics, 2015, 120, 1182-1196.	0.8	46
123	Magnetospheric influence on the Moon's exosphere. Journal of Geophysical Research, 2006, 111, .	3.3	45
124	New measurements of total ionizing dose in the lunar environment. Space Weather, 2011, 9, .	1.3	45
125	A statistical study of EMIC waves observed by Cluster: 2. Associated plasma conditions. Journal of Geophysical Research: Space Physics, 2016, 121, 6458-6479.	0.8	45
126	The variation of the plasma sheet polytropic index along the midnight meridian in a finite width magnetotail. Geophysical Research Letters, 1990, 17, 591-594.	1.5	44

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127	Role of coronal mass ejections in the heliospheric Hale cycle. Geophysical Research Letters, 2007, 34, .	1.5	44
128	Multiple loss processes of relativistic electrons outside the heart of outer radiation belt during a storm sudden commencement. Journal of Geophysical Research: Space Physics, 2015, 120, 10,275.	0.8	44
129	Update on the Worsening Particle Radiation Environment Observed by CRaTER and Implications for Future Human Deepâ€Space Exploration. Space Weather, 2018, 16, 289-303.	1.3	44
130	Static magnetic field models consistent with nearly isotropic plasma pressure. Geophysical Research Letters, 1987, 14, 872-875.	1.5	43
131	Variability of the pitch angle distribution of radiation belt ultrarelativistic electrons during and following intense geomagnetic storms: Van Allen Probes observations. Journal of Geophysical Research: Space Physics, 2015, 120, 4863-4876.	0.8	43
132	A Statistical Study of EMIC Waves Associated With and Without Energetic Particle Injection From the Magnetotail. Journal of Geophysical Research: Space Physics, 2019, 124, 433-450.	0.8	43
133	Multipoint Observations of Energetic Particle Injections and Substorm Activity During a Conjunction Between Magnetospheric Multiscale (MMS) and Van Allen Probes. Journal of Geophysical Research: Space Physics, 2017, 122, 11,481.	0.8	42
134	An Empirical Model of Radiation Belt Electron Pitch Angle Distributions Based On Van Allen Probes Measurements. Journal of Geophysical Research: Space Physics, 2018, 123, 3493-3511.	0.8	41
135	The Relationship Between EMIC Wave Properties and Proton Distributions Based on Van Allen Probes Observations. Geophysical Research Letters, 2019, 46, 4070-4078.	1.5	41
136	Direct Observation of Subrelativistic Electron Precipitation Potentially Driven by EMIC Waves. Geophysical Research Letters, 2019, 46, 12711-12721.	1.5	41
137	Space Technology 5 multiâ€point measurements of nearâ€Earth magnetic fields: Initial results. Geophysical Research Letters, 2008, 35, .	1.5	40
138	Inherent lengthâ€scales of periodic solar wind number density structures. Journal of Geophysical Research, 2008, 113, .	3.3	40
139	Plasmatrough exohiss waves observed by Van Allen Probes: Evidence for leakage from plasmasphere and resonant scattering of radiation belt electrons. Geophysical Research Letters, 2015, 42, 1012-1019.	1.5	40
140	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
141	Revisiting two-step Forbush decreases. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	39
142	Second harmonic poloidal waves observed by Van Allen Probes in the duskâ€midnight sector. Journal of Geophysical Research: Space Physics, 2017, 122, 3013-3039.	0.8	39
143	Storm-time configuration of the inner magnetosphere: Lyon-Fedder-Mobarry MHD code, Tsyganenko model, and GOES observations. Journal of Geophysical Research, 2006, 111, .	3.3	38
144	Study of EMIC wave excitation using direct ion measurements. Journal of Geophysical Research: Space Physics, 2015, 120, 2702-2719.	0.8	38

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145	Ultrarelativistic electron butterfly distributions created by parallel acceleration due to magnetosonic waves. Journal of Geophysical Research: Space Physics, 2016, 121, 3212-3222.	0.8	38
146	On the relation between radiation belt electrons and solar wind parameters/geomagnetic indices: Dependence on the first adiabatic invariant and L[*]. Journal of Geophysical Research: Space Physics, 2017, 122, 1624-1642.	0.8	38
147	The hidden dynamics of relativistic electrons (0.7â€“1.5ÂMeV) in the inner zone and slot region. Journal of Geophysical Research: Space Physics, 2017, 122, 3127-3144.	0.8	38
148	Rapid Loss of Radiation Belt Relativistic Electrons by EMIC Waves. Journal of Geophysical Research: Space Physics, 2017, 122, 9880-9897.	0.8	38
149	A quantitative assessment of empirical magnetic field models at geosynchronous orbit during magnetic storms. Journal of Geophysical Research, 2008, 113, .	3.3	37
150	REPAD: An empirical model of pitch angle distributions for energetic electrons in the Earth's outer radiation belt. Journal of Geophysical Research: Space Physics, 2014, 119, 1693-1708.	0.8	37
151	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
152	Properties of Whistler Mode Waves in Earth's Plasmasphere and Plumes. Journal of Geophysical Research: Space Physics, 2019, 124, 1035-1051.	0.8	37
153	Are periodic solar wind number density structures formed in the solar corona?. Geophysical Research Letters, 2009, 36, .	1.5	36
154	Multiple bidirectional EMIC waves observed by Cluster at middle magnetic latitudes in the dayside magnetosphere. Journal of Geophysical Research: Space Physics, 2013, 118, 6266-6278.	0.8	36
155	Quantifying hissâ€driven energetic electron precipitation: A detailed conjunction event analysis. Geophysical Research Letters, 2014, 41, 1085-1092.	1.5	36
156	EMIC waves and associated relativistic electron precipitation on 25â€“26 January 2013. Journal of Geophysical Research: Space Physics, 2016, 121, 11,086.	0.8	36
157	Energetic magnetosheath ions connected to the Earth's bow shock: Possible source of cusp energetic ions. Journal of Geophysical Research, 2000, 105, 5471-5488.	3.3	34
158	Simulations of inner magnetosphere dynamics with an expanded RAMâ€SCB model and comparisons with Van Allen Probes observations. Geophysical Research Letters, 2014, 41, 2687-2694.	1.5	34
159	Disappearance of plasmaspheric hiss following interplanetary shock. Geophysical Research Letters, 2015, 42, 3129-3140.	1.5	34
160	Rapid enhancement of lowâ€energy (<100â€‰eV) ion flux in response to interplanetary shocks based on two Van Allen Probes case studies: Implications for source regions and heating mechanisms. Journal of Geophysical Research: Space Physics, 2016, 121, 6430-6443.	0.8	34
161	Oxygen Ion Dynamics in the Earth's Ring Current: Van Allen Probes Observations. Journal of Geophysical Research: Space Physics, 2019, 124, 7786-7798.	0.8	34
162	RBSPâ€ECT Combined Spinâ€Averaged Electron Flux Data Product. Journal of Geophysical Research: Space Physics, 2019, 124, 9124-9136.	0.8	34

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163	Predicting magnetopause crossings at geosynchronous orbit during the Halloween storms. Space Weather, 2007, 5, n/a-n/a.	1.3	33
164	Electron butterfly distribution modulation by magnetosonic waves. Geophysical Research Letters, 2016, 43, 3051-3059.	1.5	33
165	The Characteristic Pitch Angle Distributions of 1ÂeV to 600ÂkeV Protons Near the Equator Based On Van Allen Probes Observations. Journal of Geophysical Research: Space Physics, 2017, 122, 9464-9473.	0.8	33
166	Microburst Scale Size Derived From Multiple Bounces of a Microburst Simultaneously Observed With the FIREBIRDâ€II CubeSats. Geophysical Research Letters, 2018, 45, 8811-8818.	1.5	33
167	On the standing wave mode of giant pulsations. Journal of Geophysical Research, 1992, 97, 10717-10732.	3.3	32
168	Ambient solar wind's effect on ICME transit times. Geophysical Research Letters, 2008, 35, .	1.5	32
169	Van Allen Probes observations of direct waveâ€particle interactions. Geophysical Research Letters, 2014, 41, 1869-1875.	1.5	32
170	Prompt injections of highly relativistic electrons induced by interplanetary shocks: A statistical study of Van Allen Probes observations. Geophysical Research Letters, 2016, 43, 12,317.	1.5	32
171	A Revised Look at Relativistic Electrons in the Earth's Inner Radiation Zone and Slot Region. Journal of Geophysical Research: Space Physics, 2019, 124, 934-951.	0.8	32
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