

# Bernard Blake

## List of Publications by Year in descending order

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221  
papers

14,292  
citations

16450

64  
h-index

24978

109  
g-index

230  
all docs

230  
docs citations

230  
times ranked

3293  
citing authors

#	ARTICLE	IF	CITATIONS
1	Rapid local acceleration of relativistic radiation-belt electrons by magnetospheric chorus. <i>Nature</i> , 2013, 504, 411-414.	27.8	608
2	Electron-scale measurements of magnetic reconnection in space. <i>Science</i> , 2016, 352, aaf2939.	12.6	545
3	The Magnetic Electron Ion Spectrometer (MagEIS) Instruments Aboard the Radiation Belt Storm Probes (RBSP) Spacecraft. <i>Space Science Reviews</i> , 2013, 179, 383-421.	8.1	491
4	Electron Acceleration in the Heart of the Van Allen Radiation Belts. <i>Science</i> , 2013, 341, 991-994.	12.6	463
5	Science Goals and Overview of the Radiation Belt Storm Probes (RBSP) Energetic Particle, Composition, and Thermal Plasma (ECT) Suite on NASA's Van Allen Probes Mission. <i>Space Science Reviews</i> , 2013, 179, 311-336.	8.1	463
6	Simulation of the prompt energization and transport of radiation belt particles during the March 24, 1991 SSC. <i>Geophysical Research Letters</i> , 1993, 20, 2423-2426.	4.0	393
7	Injection of electrons and protons with energies of tens of MeV into L & 3 on 24 March 1991. <i>Geophysical Research Letters</i> , 1992, 19, 821-824.	4.0	359
8	Highly relativistic electrons in the Earth's outer magnetosphere: 1. Lifetimes and temporal history 1979-1984. <i>Journal of Geophysical Research</i> , 1986, 91, 4265-4276.	3.3	282
9	Multisatellite observations of the outer zone electron variation during the November 3-4, 1993, magnetic storm. <i>Journal of Geophysical Research</i> , 1997, 102, 14123-14140.	3.3	274
10	Energization of relativistic electrons in the presence of ULF power and MeV microbursts: Evidence for dual ULF and VLF acceleration. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	242
11	Electron-scale dynamics of the diffusion region during symmetric magnetic reconnection in space. <i>Science</i> , 2018, 362, 1391-1395.	12.6	221
12	Observations of relativistic electron microbursts in association with VLF chorus. <i>Journal of Geophysical Research</i> , 2001, 106, 6017-6027.	3.3	220
13	Relativistic electron acceleration and decay time scales in the inner and outer radiation belts: SAMPEX. <i>Geophysical Research Letters</i> , 1994, 21, 409-412.	4.0	211
14	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.	2.4	182
15	Correlation of changes in the outer-zone relativistic-electron population with upstream solar wind and magnetic field measurements. <i>Geophysical Research Letters</i> , 1997, 24, 927-929.	4.0	163
16	Quantification of relativistic electron microburst losses during the GEM storms. <i>Geophysical Research Letters</i> , 2004, 31, .	4.0	158
17	On the source location of radiation belt relativistic electrons. <i>Journal of Geophysical Research</i> , 2000, 105, 2607-2624.	3.3	157
18	Energy-dependent dynamics of keV to MeV electrons in the inner zone, outer zone, and slot regions. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 397-412.	2.4	152

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19	CEPPAD. <i>Space Science Reviews</i> , 1995, 71, 531-562.	8.1	150
20	On the relationship between relativistic electron flux and solar wind velocity: Paulikas and Blake revisited. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a.	3.3	148
21	Wave-driven butterfly distribution of Van Allen belt relativistic electrons. <i>Nature Communications</i> , 2015, 6, 8590.	12.8	148
22	Event-specific chorus wave and electron seed population models in DREAM3D using the Van Allen Probes. <i>Geophysical Research Letters</i> , 2014, 41, 1359-1366.	4.0	136
23	Excitation of poloidal standing Alfvén waves through drift resonance wave-particle interaction. <i>Geophysical Research Letters</i> , 2013, 40, 4127-4132.	4.0	134
24	Van Allen Probes observation of localized drift resonance between poloidal mode ultra-low frequency waves and 60 keV electrons. <i>Geophysical Research Letters</i> , 2013, 40, 4491-4497.	4.0	127
25	CRATER: The Cosmic Ray Telescope for the Effects of Radiation Experiment on the Lunar Reconnaissance Orbiter Mission. <i>Space Science Reviews</i> , 2010, 150, 243-284.	8.1	123
26	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.	4.0	120
27	RAPID – The Imaging Energetic Particle Spectrometer on Cluster. <i>Space Science Reviews</i> , 1997, 79, 399-473.	8.1	117
28	Energetic electron injections deep into the inner magnetosphere associated with substorm activity. <i>Geophysical Research Letters</i> , 2015, 42, 2079-2087.	4.0	112
29	The Energetic Particle Detector (EPD) Investigation and the Energetic Ion Spectrometer (EIS) for the Magnetospheric Multiscale (MMS) Mission. <i>Space Science Reviews</i> , 2016, 199, 471-514.	8.1	111
30	On the cause and extent of outer radiation belt losses during the 30 September 2012 dropout event. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 1530-1540.	2.4	110
31	Resonant scattering of energetic electrons by unusual low-frequency hiss. <i>Geophysical Research Letters</i> , 2014, 41, 1854-1861.	4.0	110
32	Van Allen Probes show that the inner radiation zone contains no MeV electrons: ECT/MagEIS data. <i>Geophysical Research Letters</i> , 2015, 42, 1283-1289.	4.0	109
33	Relationship of the Van Allen radiation belts to solar wind drivers. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2008, 70, 708-729.	1.6	107
34	Quantifying the radiation belt seed population in the 17 March 2013 electron acceleration event. <i>Geophysical Research Letters</i> , 2014, 41, 2275-2281.	4.0	107
35	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.	2.4	103
36	Timing of magnetic reconnection initiation during a global magnetospheric substorm onset. <i>Geophysical Research Letters</i> , 2002, 29, 43-44.	4.0	102

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37	Chorus acceleration of radiation belt relativistic electrons during March 2013 geomagnetic storm. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 3325-3332.	2.4	101
38	Simulation of proton radiation belt formation during the March 24, 1991 SSC. <i>Geophysical Research Letters</i> , 1995, 22, 291-294.	4.0	98
39	Precipitating relativistic electrons: Their long-term effect on stratospheric odd nitrogen levels. <i>Journal of Geophysical Research</i> , 1991, 96, 2939-2976.	3.3	97
40	The global response of relativistic radiation belt electrons to the January 1997 magnetic cloud. <i>Geophysical Research Letters</i> , 1998, 25, 3265-3268.	4.0	96
41	Observations Directly Linking Relativistic Electron Microbursts to Whistler Mode Chorus: Van Allen Probes and FIREBIRD II. <i>Geophysical Research Letters</i> , 2017, 44, 11,265.	4.0	96
42	Relativistic electron microbursts during the GEM storms. <i>Geophysical Research Letters</i> , 2001, 28, 2573-2576.	4.0	95
43	Satellite anomalies linked to electron increase in the magnetosphere. <i>Eos</i> , 1994, 75, 401.	0.1	94
44	Highly relativistic radiation belt electron acceleration, transport, and loss: Large solar storm events of March and June 2015. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 6647-6660.	2.4	93
45	SAMPEX observations of precipitation bursts in the outer radiation belt. <i>Journal of Geophysical Research</i> , 2000, 105, 15875-15885.	3.3	90
46	The Fly's Eye Energetic Particle Spectrometer (FEEPS) Sensors for the Magnetospheric Multiscale (MMS) Mission. <i>Space Science Reviews</i> , 2016, 199, 309-329.	8.1	89
47	Modeling inward diffusion and slow decay of energetic electrons in the Earth's outer radiation belt. <i>Geophysical Research Letters</i> , 2015, 42, 987-995.	4.0	87
48	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.	2.4	86
49	Multisatellite measurements of relativistic electrons: Global coherence. <i>Journal of Geophysical Research</i> , 2001, 106, 29721-29732.	3.3	84
50	The Response of Earth's Electron Radiation Belts to Geomagnetic Storms: Statistics From the Van Allen Probes Era Including Effects From Different Storm Drivers. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 1013-1034.	2.4	84
51	A background correction algorithm for Van Allen Probes MagEIS electron flux measurements. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 5703-5727.	2.4	78
52	Upper limit on the inner radiation belt MeV electron intensity. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 1215-1228.	2.4	77
53	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.	2.4	77
54	Multisatellite observations of MeV ion injections during storms. <i>Journal of Geophysical Research</i> , 2002, 107, SMP 7-1.	3.3	73

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55	Ultra-low-frequency wave-driven diffusion of radiation belt relativistic electrons. <i>Nature Communications</i> , 2015, 6, 10096.	12.8	71
56	What Causes Radiation Belt Enhancements: A Survey of the Van Allen Probes Era. <i>Geophysical Research Letters</i> , 2018, 45, 5253-5259.	4.0	71
57	Relativistic electrons near geostationary orbit: Evidence for internal magnetospheric acceleration. <i>Geophysical Research Letters</i> , 1989, 16, 559-562.	4.0	70
58	The evolution of ring current ion energy density and energy content during geomagnetic storms based on Van Allen Probes measurements. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 7493-7511.	2.4	70
59	Prompt acceleration of magnetospheric electrons to ultrarelativistic energies by the 17 March 2015 interplanetary shock. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 7622-7635.	2.4	68
60	Lunar radiation environment and space weathering from the Cosmic Ray Telescope for the Effects of Radiation (CRaTER). <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	67
61	The effects of geomagnetic storms on electrons in Earth's radiation belts. <i>Geophysical Research Letters</i> , 2015, 42, 9176-9184.	4.0	67
62	Direct evidence for EMIC wave scattering of relativistic electrons in space. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 6620-6631.	2.4	67
63	First multipoint in situ observations of electron microbursts: Initial results from the NSF FIREBIRD II mission. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 5272-5283.	2.4	67
64	Relativistic electron drift shell splitting. <i>Journal of Geophysical Research</i> , 2002, 107, SMP 27-1.	3.3	66
65	The Global Statistical Response of the Outer Radiation Belt During Geomagnetic Storms. <i>Geophysical Research Letters</i> , 2018, 45, 3783-3792.	4.0	66
66	Plasmaspheric hiss waves generate a reversed energy spectrum of radiation belt electrons. <i>Nature Physics</i> , 2019, 15, 367-372.	16.7	66
67	Relativistic Electron Microbursts as High-Energy Tail of Pulsating Aurora Electrons. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL090360.	4.0	66
68	Response of the inner radiation belt to the violent Sun-Earth connection events of October–November 2003. <i>Geophysical Research Letters</i> , 2005, 32, .	4.0	65
69	First results from CSSWE CubeSat: Characteristics of relativistic electrons in the near-Earth environment during the October 2012 magnetic storms. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 6489-6499.	2.4	65
70	Atmospheric losses of radiation belt electrons. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	64
71	Near-Earth injection of MeV electrons associated with intense dipolarization electric fields: Van Allen Probes observations. <i>Geophysical Research Letters</i> , 2015, 42, 6170-6179.	4.0	62
72	Observation of relativistic electron microbursts in conjunction with intense radiation belt whistler-mode waves. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	4.0	61

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73	Nonstorm time dynamics of electron radiation belts observed by the Van Allen Probes. <i>Geophysical Research Letters</i> , 2014, 41, 229-235.	4.0	60
74	Interactions of energetic electrons with ULF waves triggered by interplanetary shock: Van Allen Probes observations in the magnetotail. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 8262-8273.	2.4	57
75	Generation of unusually low frequency plasmaspheric hiss. <i>Geophysical Research Letters</i> , 2014, 41, 5702-5709.	4.0	56
76	Does the worsening galactic cosmic radiation environment observed by CRaTER preclude future manned deep space exploration?. <i>Space Weather</i> , 2014, 12, 622-632.	3.7	55
77	Charged particle behavior in the growth and damping stages of ultralow frequency waves: Theory and Van Allen Probes observations. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 3254-3263.	2.4	55
78	Characteristic energy range of electron scattering due to plasmaspheric hiss. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 11,737.	2.4	54
79	Simultaneous Observations of Lower Band Chorus Emissions at the Equator and Microburst Precipitating Electrons in the Ionosphere. <i>Geophysical Research Letters</i> , 2018, 45, 511-516.	4.0	54
80	Equinoctial and solstitial averages of magnetospheric relativistic electrons: A strong semiannual modulation. <i>Geophysical Research Letters</i> , 1999, 26, 3193-3196.	4.0	53
81	Peculiar pitch angle distribution of relativistic electrons in the inner radiation belt and slot region. <i>Geophysical Research Letters</i> , 2014, 41, 2250-2257.	4.0	53
82	Relativistic electron dynamics produced by azimuthally localized poloidal mode ULF waves: Boomerang-shaped pitch angle evolutions. <i>Geophysical Research Letters</i> , 2017, 44, 7618-7627.	4.0	53
83	Ring current electron dynamics during geomagnetic storms based on the Van Allen Probes measurements. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 3333-3346.	2.4	52
84	Statistical properties of the radiation belt seed population. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 7636-7646.	2.4	51
85	Energy limits of electron acceleration in the plasma sheet during substorms: A case study with the Magnetospheric Multiscale (MMS) mission. <i>Geophysical Research Letters</i> , 2016, 43, 7785-7794.	4.0	51
86	Correlated Pc4-5 ULF waves, whistler-mode chorus, and pulsating aurora observed by the Van Allen Probes and ground-based systems. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 8749-8761.	2.4	50
87	Simulation of energy-dependent electron diffusion processes in the Earth's outer radiation belt. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 4217-4231.	2.4	50
88	Intense duskside lower band chorus waves observed by Van Allen Probes: Generation and potential acceleration effect on radiation belt electrons. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 4266-4273.	2.4	49
89	Nonstorm time dropout of radiation belt electron fluxes on 24 September 2013. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 6400-6416.	2.4	49
90	The Global Positioning System constellation as a space weather monitor: Comparison of electron measurements with Van Allen Probes data. <i>Space Weather</i> , 2016, 14, 76-92.	3.7	48

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91	Investigating the source of near-relativistic and relativistic electrons in Earth's inner radiation belt. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 695-710.	2.4	48
92	Global-Scale ULF Waves Associated With SSC Accelerate Magnetospheric Ultrarelativistic Electrons. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 1525-1538.	2.4	48
93	Relativistic electron precipitation enhancements near the outer edge of the radiation belt. <i>Geophysical Research Letters</i> , 1995, 22, 1129-1132.	4.0	47
94	Rapid enhancements of relativistic electrons deep in the magnetosphere during the May 15, 1997, magnetic storm. <i>Journal of Geophysical Research</i> , 1999, 104, 4467-4476.	3.3	47
95	A nonstorm time enhancement of relativistic electrons in the outer radiation belt. <i>Geophysical Research Letters</i> , 2014, 41, 7-12.	4.0	47
96	Kinetic evidence of magnetic reconnection due to Kelvin-Helmholtz waves. <i>Geophysical Research Letters</i> , 2016, 43, 5635-5643.	4.0	47
97	Autogenous and efficient acceleration of energetic ions upstream of Earth's bow shock. <i>Nature</i> , 2018, 561, 206-210.	27.8	47
98	The ELFIN Mission. <i>Space Science Reviews</i> , 2020, 216, 103.	8.1	47
99	Characterizing the Earth's outer Van Allen zone using a radiation belt content index. <i>Space Weather</i> , 2004, 2, n/a-n/a.	3.7	45
100	New measurements of total ionizing dose in the lunar environment. <i>Space Weather</i> , 2011, 9, .	3.7	45
101	Penetration of solar protons to synchronous altitude. <i>Journal of Geophysical Research</i> , 1969, 74, 2161-2168.	3.3	44
102	Multiple loss processes of relativistic electrons outside the heart of outer radiation belt during a storm sudden commencement. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 10,275.	2.4	44
103	Update on the Worsening Particle Radiation Environment Observed by CRaTER and Implications for Future Human Deep-Space Exploration. <i>Space Weather</i> , 2018, 16, 289-303.	3.7	44
104	Empirically Estimated Electron Lifetimes in the Earth's Radiation Belts: Comparison With Theory. <i>Geophysical Research Letters</i> , 2020, 47, e2019GL086056.	4.0	44
105	Multipoint Observations of Energetic Particle Injections and Substorm Activity During a Conjunction Between Magnetospheric Multiscale (MMS) and Van Allen Probes. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 11,481.	2.4	42
106	Characteristics of pitch angle distributions of hundreds of keV electrons in the slot region and inner radiation belt. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 9543-9557.	2.4	41
107	An Empirical Model of Radiation Belt Electron Pitch Angle Distributions Based On Van Allen Probes Measurements. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 3493-3511.	2.4	41
108	Plasmatrough exohiss waves observed by Van Allen Probes: Evidence for leakage from plasmasphere and resonant scattering of radiation belt electrons. <i>Geophysical Research Letters</i> , 2015, 42, 1012-1019.	4.0	40

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109	Control of the innermost electron radiation belt by large-scale electric fields. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 8417-8427.	2.4	40
110	Microscopic, Multipoint Characterization of Foreshock Bubbles With Magnetospheric Multiscale (MMS). <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA027707.	2.4	40
111	Spatial variation of the inner zone trapped proton spectrum. <i>Journal of Geophysical Research</i> , 1965, 70, 3113-3116.	3.3	39
112	Lightning-induced energetic electron flux enhancements in the drift loss cone. <i>Journal of Geophysical Research</i> , 2001, 106, 29733-29744.	3.3	39
113	Ultrarelativistic electron butterfly distributions created by parallel acceleration due to magnetosonic waves. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 3212-3222.	2.4	38
114	The hidden dynamics of relativistic electrons (0.7–1.5 MeV) in the inner zone and slot region. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 3127-3144.	2.4	38
115	Quantifying the relative contributions of substorm injections and chorus waves to the rapid outward extension of electron radiation belt. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 10,023.	2.4	37
116	The Relativistic Proton Spectrometer (RPS) for the Radiation Belt Storm Probes Mission. <i>Space Science Reviews</i> , 2013, 179, 221-261.	8.1	36
117	Quantifying hiss-driven energetic electron precipitation: A detailed conjunction event analysis. <i>Geophysical Research Letters</i> , 2014, 41, 1085-1092.	4.0	36
118	EMIC waves and associated relativistic electron precipitation on 25–26 January 2013. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 11,086.	2.4	36
119	Disappearance of plasmaspheric hiss following interplanetary shock. <i>Geophysical Research Letters</i> , 2015, 42, 3129-3140.	4.0	34
120	RBSP-ECT Combined Spin-Averaged Electron Flux Data Product. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 9124-9136.	2.4	34
121	Formation of the inner electron radiation belt by enhanced large-scale electric fields. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 8508-8522.	2.4	33
122	Radiation belt electron dynamics at low $L$ (<4): Van Allen Probes era versus previous two solar cycles. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 5224-5234.	2.4	33
123	Microburst Scale Size Derived From Multiple Bounces of a Microburst Simultaneously Observed With the FIREBIRD CubeSats. <i>Geophysical Research Letters</i> , 2018, 45, 8811-8818.	4.0	33
124	Empirically Estimated Electron Lifetimes in the Earth's Radiation Belts: Van Allen Probe Observations. <i>Geophysical Research Letters</i> , 2020, 47, e2019GL086053.	4.0	33
125	Van Allen Probes observations of direct wave-particle interactions. <i>Geophysical Research Letters</i> , 2014, 41, 1869-1875.	4.0	32
126	A Revised Look at Relativistic Electrons in the Earth's Inner Radiation Zone and Slot Region. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 934-951.	2.4	32



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127	Penetration of magnetosonic waves into the plasmasphere observed by the Van Allen Probes. <i>Geophysical Research Letters</i> , 2015, 42, 7287-7294.	4.0	31
128	Simultaneous disappearances of plasmaspheric hiss, exohiss, and chorus waves triggered by a sudden decrease in solar wind dynamic pressure. <i>Geophysical Research Letters</i> , 2017, 44, 52-61.	4.0	31
129	A telescopic and microscopic examination of acceleration in the June 2015 geomagnetic storm: Magnetospheric Multiscale and Van Allen Probes study of substorm particle injection. <i>Geophysical Research Letters</i> , 2016, 43, 6051-6059.	4.0	30
130	The radiation environment near the lunar surface: CRaTER observations and Geant4 simulations. <i>Space Weather</i> , 2013, 11, 142-152.	3.7	28
131	Evolution of relativistic outer belt electrons during an extended quiescent period. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 9558-9566.	2.4	28
132	Observations of small-scale latitudinal structure in energetic electron precipitation. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 3031-3035.	2.4	28
133	A positive correlation between energetic electron butterfly distributions and magnetosonic waves in the radiation belt slot region. <i>Geophysical Research Letters</i> , 2017, 44, 3980-3990.	4.0	27
134	The FIREBIRD-II CubeSat mission: Focused investigations of relativistic electron burst intensity, range, and dynamics. <i>Review of Scientific Instruments</i> , 2020, 91, 034503.	1.3	27
135	Focusing on Size and Energy Dependence of Electron Microbursts From the Van Allen Radiation Belts. <i>Space Weather</i> , 2012, 10, .	3.7	26
136	Survey of radiation belt energetic electron pitch angle distributions based on the Van Allen Probes MagEIS measurements. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 1078-1090.	2.4	26
137	Electron Microburst Size Distribution Derived With AeroCube-6. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA027651.	2.4	26
138	Spatial scale and duration of one microburst region on 13 August 2015. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 5949-5964.	2.4	25
139	Systematic Evaluation of Low-Frequency Hiss and Energetic Electron Injections. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 10,263-10,274.	2.4	25
140	Rapid Loss of Relativistic Electrons by EMIC Waves in the Outer Radiation Belt Observed by Arase, Van Allen Probes, and the PWING Ground Stations. <i>Geophysical Research Letters</i> , 2018, 45, 12,720.	4.0	25
141	Characterization and Evolution of Radiation Belt Electron Energy Spectra Based on the Van Allen Probes Measurements. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 4217-4232.	2.4	25
142	Prompt enhancement of the Earth's outer radiation belt due to substorm electron injections. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 11,826.	2.4	24
143	Electron dropout echoes induced by interplanetary shock: Van Allen Probes observations. <i>Geophysical Research Letters</i> , 2016, 43, 5597-5605.	4.0	24
144	Inner-zone electrons in 1964 and 1965. <i>Journal of Geophysical Research</i> , 1967, 72, 2011-2020.	3.3	23

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145	Rapid flattening of butterfly pitch angle distributions of radiation belt electrons by whistlerâ€mode chorus. <i>Geophysical Research Letters</i> , 2016, 43, 8339-8347.	4.0	23
146	Observations of energetic particle escape at the magnetopause: Early results from the MMS Energetic Ion Spectrometer (EIS). <i>Geophysical Research Letters</i> , 2016, 43, 5960-5968.	4.0	23
147	Generation of extremely low frequency chorus in Van Allen radiation belts. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 3201-3211.	2.4	23
148	Van Allen Probes Measurements of Energetic Particle Deep Penetration Into the Low L Region (<i>L</i><i>L</i> <i>L</i> <i>L</i>) During the Storm on 8 April 2016. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 12,140.	2.4	22
149	Energetic electron acceleration observed by MMS in the vicinity of an Xâ€line crossing. <i>Geophysical Research Letters</i> , 2016, 43, 7356-7363.	4.0	21
150	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.	2.4	20
151	Evidence of Microbursts Observed Near the Equatorial Plane in the Outer Van Allen Radiation Belt. <i>Geophysical Research Letters</i> , 2018, 45, 8044-8053.	4.0	20
152	On the Initial Enhancement of Energetic Electrons and the Innermost Plasmopause Locations: Coronal Mass Ejectionâ€Driven Storm Periods. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 9252-9264.	2.4	20
153	Characteristics of Relativistic Microburst Intensity From SAMPEX Observations. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 5627-5640.	2.4	20
154	Measurements of galactic cosmic ray shielding with the CRaTER instrument. <i>Space Weather</i> , 2013, 11, 284-296.	3.7	19
155	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.	2.4	19
156	The deep space galactic cosmic ray lineal energy spectrum at solar minimum. <i>Space Weather</i> , 2013, 11, 361-368.	3.7	18
157	Radiation belt seed population and its association with the relativistic electron dynamics: A statistical study. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 5261-5276.	2.4	18
158	Examining Coherency Scales, Substructure, and Propagation of Whistler Mode Chorus Elements With Magnetospheric Multiscale (MMS). <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 11,201.	2.4	18
159	Dominance of highâ€energy (>150â€keV) heavy ion intensities in Earth's middle to outer magnetosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 9282-9293.	2.4	18
160	The effects of magnetospheric processes on relativistic electron dynamics in the Earth's outer radiation belt. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 9952-9968.	2.4	18
161	The Magnetic Electron Ion Spectrometer: A Review of On-Orbit Sensor Performance, Data, Operations, and Science. <i>Space Science Reviews</i> , 2021, 217, 80.	8.1	18
162	Local and nonlocal geometry of interplanetary coronal mass ejections: Galactic cosmic ray (GCR) shortâ€period variations and magnetic field modeling. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	17

#	ARTICLE	IF	CITATIONS
163	Relativistic electron response to the combined magnetospheric impact of a coronal mass ejection overlapping with a high-speed stream: Van Allen Probes observations. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 7629-7641.	2.4	17
164	Relativistic electron microbursts and variations in trapped MeV electron fluxes during the 8 <sup>th</sup> October 2012 storm: SAMPEX and Van Allen Probes observations. <i>Geophysical Research Letters</i> , 2016, 43, 3017-3025.	4.0	17
165	Update on Radiation Dose From Galactic and Solar Protons at the Moon Using the LRO/CRaTER Microdosimeter. <i>Space Weather</i> , 2015, 13, 363-364.	3.7	16
166	Inner zone and slot electron radial diffusion revisited. <i>Geophysical Research Letters</i> , 2016, 43, 7301-7310.	4.0	16
167	Remote Detection of Drift Resonance Between Energetic Electrons and Ultralow Frequency Waves: Multisatellite Coordinated Observation by Arase and Van Allen Probes. <i>Geophysical Research Letters</i> , 2019, 46, 11642-11651.	4.0	16
168	Van Allen Probes, THEMIS, GOES, and Cluster observations of EMIC waves, ULF pulsations, and an electron flux dropout. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 1990-2008.	2.4	15
169	Van Allen Probes observation of a 360 <sup>o</sup> phase shift in the flux modulation of injected electrons by ULF waves. <i>Geophysical Research Letters</i> , 2017, 44, 1614-1624.	4.0	15
170	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.	2.4	15
171	Rapid Enhancements of the Seed Populations in the Heart of the Earth's Outer Radiation Belt: A Multicase Study. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 4895-4907.	2.4	15
172	Link between premidnight second harmonic poloidal waves and auroral undulations: Conjugate observations with a Van Allen Probe spacecraft and a THEMIS all-sky imager. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 1814-1831.	2.4	14
173	Compressional ULF wave modulation of energetic particles in the inner magnetosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 6262-6276.	2.4	14
174	Statistical analysis of MMS observations of energetic electron escape observed at/beyond the dayside magnetopause. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 9440-9463.	2.4	14
175	Estimating the Impacts of Radiation Belt Electrons on Atmospheric Chemistry Using FIREBIRD II and Van Allen Probes Observations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2020JD033098.	3.3	14
176	Microinjections observed by MMS FEEPS in the dusk to midnight region. <i>Geophysical Research Letters</i> , 2016, 43, 6078-6086.	4.0	13
177	Origin of Electron Boomerang Stripes: Localized ULF Wave-Particle Interactions. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL087960.	4.0	13
178	On the access of solar protons to the synchronous altitude region. <i>Journal of Geophysical Research</i> , 1974, 79, 1345-1348.	3.3	12
179	On the ionic identity of the ring current particles. <i>Journal of Geophysical Research</i> , 1976, 81, 6189-6192.	3.3	12
180	Simultaneous Observations of Localized and Global Drift-Resonance. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL088019.	4.0	12

#	ARTICLE	IF	CITATIONS
181	Diagnosis of ULF Wave-Particle Interactions With Megaelectron Volt Electrons: The Importance of Ultrahigh-Resolution Energy Channels. <i>Geophysical Research Letters</i> , 2018, 45, 10,883.	4.0	11
182	RBSP-ECT Combined Pitch Angle Resolved Electron Flux Data Product. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028637.	2.4	11
183	Can Earth's Magnetotail Plasma Sheet Produce a Source of Relativistic Electrons for the Radiation Belts?. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL095495.	4.0	11
184	Relativistic Electron Enhancements Through Successive Dipolarizations During a CIR-Driven Storm. <i>Journal of Geophysical Research: Space Physics</i> , 2022, 127, .	2.4	11
185	An empirically observed pitch-angle diffusion eigenmode in the Earth's electron belt near $L^* = 5.0$ . <i>Geophysical Research Letters</i> , 2014, 41, 251-258.	4.0	10
186	Characteristics of Energetic Electrons Near Active Magnetotail Reconnection Sites: Tracers of a Complex Magnetic Topology and Evidence of Localized Acceleration. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL090089.	4.0	10
187	Collaborative Research Activities of the Arase and Van Allen Probes. <i>Space Science Reviews</i> , 2022, 218, .	8.1	10
188	Energetic particle composition variations during the March 1991 events measured with the Ulysses EPAC instrument. <i>Geophysical Research Letters</i> , 1992, 19, 1255-1258.	4.0	9
189	Current energetic particle sensors. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 8840-8858.	2.4	9
190	Exohiss wave enhancement following substorm electron injection in the dayside magnetosphere. <i>Earth and Planetary Physics</i> , 2018, 2, 1-12.	1.1	9
191	On the use of drift echoes to characterize on-orbit sensor discrepancies. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 2076-2087.	2.4	8
192	Characteristics of Energetic Electrons Near Active Magnetotail Reconnection Sites: Statistical Evidence for Local Energization. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL090087.	4.0	8
193	Science Goals and Overview of the Radiation Belt Storm Probes (RBSP) Energetic Particle, Composition, and Thermal Plasma (ECT) Suite on NASA's Van Allen Probes Mission. , 2013, , 311-336.		8
194	Solar modulation of the deep space galactic cosmic ray lineal energy spectrum measured by CRaTER, 2009-2014. <i>Space Weather</i> , 2016, 14, 247-258.	3.7	7
195	Dipolarization in the inner magnetosphere during a geomagnetic storm on 7 October 2015. <i>Geophysical Research Letters</i> , 2016, 43, 9397-9405.	4.0	7
196	Van Allen Probes observation of plasmaspheric hiss modulated by injected energetic electrons. <i>Annales Geophysicae</i> , 2018, 36, 781-791.	1.6	7
197	Drift-Dispersed Flux Dropouts of Energetic Electrons Observed in Earth's Middle Magnetosphere by the Magnetospheric Multiscale (MMS) Mission. <i>Geophysical Research Letters</i> , 2019, 46, 3069-3078.	4.0	7
198	Statistical Properties of Electron Curtain Precipitation Estimated With AeroCube-6. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2020JA028462.	2.4	7

#	ARTICLE	IF	CITATIONS
199	A Short-lived Three-Belt Structure for sub-MeV Electrons in the Van Allen Belts: Time Scale and Energy Dependence. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2020JA028031.	2.4	6
200	On Phase Space Density and Its Radial Gradient of Outer Radiation Belt Seed Electrons: MMS/FEPS Observations. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA027711.	2.4	6
201	Origin of Electron Boomerang Stripes: Statistical Study. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL093377.	4.0	6
202	The Energy Spectra of Electron Microbursts Between 200 keV and 1 MeV. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2021JA029709.	2.4	6
203	Competitive Influences of Different Plasma Waves on the Pitch Angle Distribution of Energetic Electrons Inside and Outside Plasmasphere. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	6
204	Diffusive shock acceleration and the March 1991 solar events. <i>Geophysical Research Letters</i> , 1992, 19, 1259-1262.	4.0	5
205	Large anisotropies of >60% MeV protons throughout the inner belt observed with the Van Allen Probes mission. <i>Geophysical Research Letters</i> , 2014, 41, 3738-3743.	4.0	5
206	Relativistic Electron Increase During Chorus Wave Activities on the 6-8 March 2016 Geomagnetic Storm. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 11,302-11,319.	2.4	5
207	Distribution of energetic electrons in the near earth space: New observations from the BeiDa Imaging Electron Spectrometer and the Van Allen Probes. <i>Planetary and Space Science</i> , 2020, 186, 104919.	1.7	5
208	Solar Energetic Proton Access to the Near-Equatorial Inner Magnetosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA027584.	2.4	5
209	Internal Charging Hazards in Near-Earth Space During Solar Cycle 24 Maximum: Van Allen Probes Measurements. <i>IEEE Transactions on Plasma Science</i> , 2015, 43, 3070-3074.	1.3	4
210	Multipoint Observations of Quasiperiodic Emission Intensification and Effects on Energetic Electron Precipitation. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028484.	2.4	4
211	Analysis of plasmaspheric hiss wave amplitudes inferred from low-altitude POES electron data: Technique sensitivity analysis. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 3552-3563.	2.4	3
212	Long-Term Observations of Galactic Cosmic Ray LET Spectra in Lunar Orbit by LRO/CRaTER. <i>Space Weather</i> , 2020, 18, e2020SW002543.	3.7	3
213	Multi-MeV Electron Dynamics Near the Inner Edge of the Outer Radiation Belt. <i>Geophysical Research Letters</i> , 2021, 48, .	4.0	3
214	Normal and Reversed Boomerang Stripes on Electron Pitch Angle Distributions: Solar Wind Dynamic Pressure Effect. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	3
215	The Shock Injection of 24 March 1991: Another Look. <i>Geophysical Monograph Series</i> , 0, , 189-193.	0.1	2
216	Response of Relativistic Electron Microbursts to the Arrival of High-Speed Solar Wind Streams and its Relation to Flux Variation of Trapped Radiation Belt Electrons. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 7452-7461.	2.4	1

#	ARTICLE	IF	CITATIONS
217	Delayed Arrival of Energetic Solar Particles at MMS on 16 July 2017. Journal of Geophysical Research: Space Physics, 2019, 124, 2711-2719.	2.4	1
218	First On-Orbit Results from the AeroCube-10 Space Solar Cell Experiment. , 2020, , .		1
219	The cusp plasma imaging detector (CuPID) cubesat observatory: Instrumentation. Review of Scientific Instruments, 2022, 93, 064504.	1.3	1
220	The Flyâ€™s Eye Energetic Particle Spectrometer (FEEPS) Sensors for the Magnetospheric Multiscale (MMS) Mission. , 2017, , 307-327.		0
221	Energetic electron microinjections observed by MMS in the dusk plasma sheet and drift resonance interpretation. Geophysical Research Letters, 0, , .	4.0	0