D N Baker

List of Publications by Year in descending order

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472 papers	30,111 citations	2675 95 h-index	7950 149 g-index
491 all docs	491 docs citations	491 times ranked	6215 citing authors

#	Article	IF	Citations
1	Neutral line model of substorms: Past results and present view. Journal of Geophysical Research, 1996, 101, 12975-13010.	3.3	861
2	Rapid local acceleration of relativistic radiation-belt electrons by magnetospheric chorus. Nature, 2013, 504, 411-414.	27.8	608
3	The Mars Atmosphere and Volatile Evolution (MAVEN) Mission. Space Science Reviews, 2015, 195, 3-48.	8.1	563
4	Electron-scale measurements of magnetic reconnection in space. Science, 2016, 352, aaf2939.	12.6	545
5	Wave acceleration of electrons in the Van Allen radiation belts. Nature, 2005, 437, 227-230.	27.8	505
6	Electron Acceleration in the Heart of the Van Allen Radiation Belts. Science, 2013, 341, 991-994.	12.6	463
7	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.	8.1	463
8	The Electric Field and Waves Instruments on the Radiation Belt Storm Probes Mission. Space Science Reviews, 2013, 179, 183-220.	8.1	421
9	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.	8.1	334
10	Outward radial diffusion driven by losses at magnetopause. Journal of Geophysical Research, 2006, 111, .	3.3	328
11	An extreme distortion of the Van Allen belt arising from the â€˜Hallowe'enâ€™ solar storm in 2003. Nature, 2004, 432, 878-881.	27.8	299
12	Effect of EMIC waves on relativistic and ultrarelativistic electron populations: Groundâ€based and Van Allen Probes observations. Geophysical Research Letters, 2014, 41, 1375-1381.	4.0	294
13	Highly relativistic electrons in the Earth';s outer magnetosphere: 1. Lifetimes and temporal history 1979â€“1984. Journal of Geophysical Research, 1986, 91, 4265-4276.	3.3	282
14	Multisatellite observations of the outer zone electron variation during the November 3â€“4, 1993, magnetic storm. Journal of Geophysical Research, 1997, 102, 14123-14140.	3.3	274
15	Energetic electron response to ULF waves induced by interplanetary shocks in the outer radiation belt. Journal of Geophysical Research, 2009, 114, .	3.3	266
16	The Global Geospace Science Program and its investigations. Space Science Reviews, 1995, 71, 5-21.	8.1	251
17	MESSENGER Observations of Magnetic Reconnection in Mercuryâ€™s Magnetosphere. Science, 2009, 324, 606-610.	12.6	234
18	On the origin of relativistic electrons in the magnetosphere associated with some geomagnetic storms. Geophysical Research Letters, 1998, 25, 3701-3704.	4.0	232

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19	Quantitative prediction of radiation belt electrons at geostationary orbit based on solar wind measurements. Geophysical Research Letters, 2001, 28, 1887-1890.	4.0	232
20	An overview of the Solar Anomalous, and Magnetospheric Particle Explorer (SAMPEX) mission. IEEE Transactions on Geoscience and Remote Sensing, 1993, 31, 531-541.	6.3	225
21	Electron-scale dynamics of the diffusion region during symmetric magnetic reconnection in space. Science, 2018, 362, 1391-1395.	12.6	221
22	A Long-Lived Relativistic Electron Storage Ring Embedded in Earthâ€™s Outer Van Allen Belt. Science, 2013, 340, 186-190.	12.6	216
23	Loss of the Martian atmosphere to space: Present-day loss rates determined from MAVEN observations and integrated loss through time. Icarus, 2018, 315, 146-157.	2.5	216
24	Source and seed populations for relativistic electrons: Their roles in radiation belt changes. Journal of Geophysical Research: Space Physics, 2015, 120, 7240-7254.	2.4	215
25	Linear prediction filter analysis of relativistic electron properties at 6.6 R_E. Journal of Geophysical Research, 1990, 95, 15133-15140.	3.3	211
26	Relativistic electron acceleration and decay time scales in the inner and outer radiation belts: SAMPEX. Geophysical Research Letters, 1994, 21, 409-412.	4.0	211
27	Simulation of dispersionless injections and drift echoes of energetic electrons associated with substorms. Geophysical Research Letters, 1998, 25, 3763-3766.	4.0	199
28	A major solar eruptive event in July 2012: Defining extreme space weather scenarios. Space Weather, 2013, 11, 585-591.	3.7	189
29	A description of the solar wind-magnetosphere coupling based on nonlinear filters. Journal of Geophysical Research, 1995, 100, 3495-3512.	3.3	185
30	Mercury's magnetopause and bow shock from MESSENGER Magnetometer observations. Journal of Geophysical Research: Space Physics, 2013, 118, 2213-2227.	2.4	182
31	Radiation belt electron acceleration by chorus waves during the 17 March 2013 storm. Journal of Geophysical Research: Space Physics, 2014, 119, 4681-4693.	2.4	182
32	Particle Acceleration in the Magnetotail and Aurora. Space Science Reviews, 2012, 173, 49-102.	8.1	173
33	Observation of two distinct, rapid loss mechanisms during the 20 November 2003 radiation belt dropout event. Journal of Geophysical Research, 2006, 111, .	3.3	172
34	MESSENGER Observations of Extreme Loading and Unloading of Mercuryâ€™s Magnetic Tail. Science, 2010, 329, 665-668.	12.6	172
35	The SSC on July 29, 1977 and its propagation within the magnetosphere. Journal of Geophysical Research, 1982, 87, 5901-5910.	3.3	168
36	Evaluation of the tail current contribution toDst. Journal of Geophysical Research, 2000, 105, 5431-5439.	3.3	168

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37	Testing loss mechanisms capable of rapidly depleting relativistic electron flux in the Earth's outer radiation belt. Journal of Geophysical Research, 2004, 109, .	3.3	168
38	SPACE SCIENCE: How to Cope with Space Weather. Science, 2002, 297, 1486-1487.	12.6	166
39	Mercury's Magnetosphere After MESSENGER's First Flyby. Science, 2008, 321, 85-89.	12.6	166
40	MAVEN observations of the response of Mars to an interplanetary coronal mass ejection. Science, 2015, 350, aad0210.	12.6	166
41	Correlation of changes in the outer-zone relativistic-electron population with upstream solar wind and magnetic field measurements. Geophysical Research Letters, 1997, 24, 927-929.	4.0	163
42	Ultralow frequency modulation of energetic particles in the dayside magnetosphere. Geophysical Research Letters, 2007, 34, .	4.0	163
43	Highâ€energy magnetospheric protons and their dependence on geomagnetic and interplanetary conditions. Journal of Geophysical Research, 1979, 84, 7138-7154.	3.3	160
44	Global energy deposition during the January 1997 magnetic cloud event. Journal of Geophysical Research, 1998, 103, 11685-11694.	3.3	159
45	An impenetrable barrier to ultrarelativistic electrons in the Van Allen radiation belts. Nature, 2014, 515, 531-534.	27.8	159
46	Acceleration mechanism responsible for the formation of the new radiation belt during the 2003 Halloween solar storm. Geophysical Research Letters, 2006, 33, .	4.0	157
47	Long term measurements of radiation belts by SAMPEX and their variations. Geophysical Research Letters, 2001, 28, 3827-3830.	4.0	154
48	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.	2.4	152
49	Highâ€resolution energetic particle measurements at 6.6 R_E 3. Lowâ€energy electron anisotropies and shortâ€term substorm predictions. Journal of Geophysical Research, 1978, 83, 4863-4868.	3.3	151
50	CEPPAD. Space Science Reviews, 1995, 71, 531-562.	8.1	150
51	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.	4.0	150
52	Global risks: Pool knowledge to stem losses from disasters. Nature, 2015, 522, 277-279.	27.8	148
53	Wave-driven butterfly distribution of Van Allen belt relativistic electrons. Nature Communications, 2015, 6, 8590.	12.8	148
54	Coronal mass ejections, magnetic clouds, and relativistic magnetospheric electron events: ISTP. Journal of Geophysical Research, 1998, 103, 17279-17291.	3.3	144

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55	Unusual stable trapping of the ultrarelativistic electrons in the Van Allen radiation belts. Nature Physics, 2013, 9, 699-703.	16.7	143
56	MESSENGER observations of magnetopause structure and dynamics at Mercury. Journal of Geophysical Research: Space Physics, 2013, 118, 997-1008.	2.4	141
57	Simulation of energetic particle injections associated with a substorm on August 27, 2001. Geophysical Research Letters, 2003, 30, 4-1-4-4.	4.0	140
58	Relativistic electron loss timescales in the slot region. Journal of Geophysical Research, 2009, 114, .	3.3	137
59	Eventâ€specific chorus wave and electron seed population models in DREAM3D using the Van Allen Probes. Geophysical Research Letters, 2014, 41, 1359-1366.	4.0	136
60	Excitation of poloidal standing AlfvÃ©n waves through drift resonance waveâ€particle interaction. Geophysical Research Letters, 2013, 40, 4127-4132.	4.0	134
61	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
62	The magnetosphere of Jupiter as observed with Pioneer 10: 1. Instrument and principal findings. Journal of Geophysical Research, 1974, 79, 3559-3577.	3.3	131
63	The occurrence of operational anomalies in spacecraft and their relationship to space weather. IEEE Transactions on Plasma Science, 2000, 28, 2007-2016.	1.3	131
64	Interstellar Mapping and Acceleration Probe (IMAP): A New NASA Mission. Space Science Reviews, 2018, 214, 1.	8.1	129
65	Cluster observations of earthward flowing plasmoid in the tail. Geophysical Research Letters, 2004, 31, .	4.0	128
66	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.	4.0	127
67	Gradual diffusion and punctuated phase space density enhancements of highly relativistic electrons: Van Allen Probes observations. Geophysical Research Letters, 2014, 41, 1351-1358.	4.0	127
68	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.	2.4	127
69	Wave-induced loss of ultra-relativistic electrons in the Van Allen radiation belts. Nature Communications, 2016, 7, 12883.	12.8	127
70	MESSENGER observations of Mercury's dayside magnetosphere under extreme solar wind conditions. Journal of Geophysical Research: Space Physics, 2014, 119, 8087-8116.	2.4	125
71	Space Weather Effects in the Earthâ€™s Radiation Belts. Space Science Reviews, 2018, 214, 1.	8.1	121
72	Average plasma and magnetic field variations in the distant magnetotail associated with nearâ€Earth substorm effects. Journal of Geophysical Research, 1987, 92, 71-81.	3.3	119

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73	Correlation between the inner edge of outer radiation belt electrons and the innermost plasmapause location. Geophysical Research Letters, 2006, 33, .	4.0	119
74	Disturbed space environment may have been related to pager satellite failure. Eos, 1998, 79, 477-477.	0.1	118
75	A strong CME-related magnetic cloud interaction with the Earth's Magnetosphere: ISTP observations of rapid relativistic electron acceleration on May 15, 1997. Geophysical Research Letters, 1998, 25, 2975-2978.	4.0	118
76	Internal acceleration of relativistic electrons by large-amplitude ULF pulsations. Journal of Geophysical Research, 1999, 104, 17391-17407.	3.3	114
77	New high temporal and spatial resolution measurements by SAMPEX of the precipitation of relativistic electrons. Advances in Space Research, 1996, 18, 171-186.	2.6	113
78	PET: a proton/electron telescope for studies of magnetospheric, solar, and galactic particles. IEEE Transactions on Geoscience and Remote Sensing, 1993, 31, 565-571.	6.3	112
79	Energetic electrons, 50 keV to 6 MeV, at geosynchronous orbit: Their responses to solar wind variations. Space Weather, 2005, 3, n/a-n/a.	3.7	112
80	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.	8.1	111
81	Highly relativistic magnetospheric electrons: A role in coupling to the middle atmosphere?. Geophysical Research Letters, 1987, 14, 1027-1030.	4.0	110
82	Are energetic electrons in the solar wind the source of the outer radiation belt?. Geophysical Research Letters, 1997, 24, 923-926.	4.0	110
83	Mercuryâ€™s magnetospheric magnetic field after the first two MESSENGER flybys. Icarus, 2010, 209, 23-39.	2.5	110
84	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.	2.4	110
85	Van Allen Probes show that the inner radiation zone contains no MeV electrons: ECT/MagEIS data. Geophysical Research Letters, 2015, 42, 1283-1289.	4.0	109
86	Quantifying the radiation belt seed population in the 17 March 2013 electron acceleration event. Geophysical Research Letters, 2014, 41, 2275-2281.	4.0	107
87	Simulated magnetopause losses and Van Allen Probe flux dropouts. Geophysical Research Letters, 2014, 41, 1113-1118.	4.0	105
88	Discovery of the action of a geophysical synchrotron in the Earthâ€™s Van Allen radiation belts. Nature Communications, 2013, 4, .	12.8	104
89	Shockâ€induced prompt relativistic electron acceleration in the inner magnetosphere. Journal of Geophysical Research: Space Physics, 2015, 120, 1661-1674.	2.4	104
90	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.	2.4	103

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91	Timing of magnetic reconnection initiation during a global magnetospheric substorm onset. Geophysical Research Letters, 2002, 29, 43-1-43-4.	4.0	102
92	MESSENGER Observations of the Spatial Distribution of Planetary Ions Near Mercury. Science, 2011, 333, 1862-1865.	12.6	102
93	Chorus acceleration of radiation belt relativistic electrons during March 2013 geomagnetic storm. Journal of Geophysical Research: Space Physics, 2014, 119, 3325-3332.	2.4	101
94	Analyses on the geometrical structure of magnetic field in the current sheet based on cluster measurements. Journal of Geophysical Research, 2003, 108, .	3.3	99
95	Characterizing Atmospheric Escape from Mars Today and Through Time, with MAVEN. Space Science Reviews, 2015, 195, 357-422.	8.1	99
96	Global properties of the magnetosphere during a substorm growth phase: A case study. Journal of Geophysical Research, 1981, 86, 8941-8956.	3.3	98
97	Explaining the dynamics of the ultra-relativistic third Van Allen radiation belt. Nature Physics, 2016, 12, 978-983.	16.7	97
98	The global response of relativistic radiation belt electrons to the January 1997 magnetic cloud. Geophysical Research Letters, 1998, 25, 3265-3268.	4.0	96
99	Magnetic flux pileup and plasma depletion in Mercury's subsolar magnetosheath. Journal of Geophysical Research: Space Physics, 2013, 118, 7181-7199.	2.4	96
100	Satellite anomalies linked to electron increase in the magnetosphere. Eos, 1994, 75, 401.	0.1	94
101	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.	2.4	93
102	A quantitative assessment of energy storage and release in the Earth's magnetotail. Journal of Geophysical Research, 1997, 102, 7159-7168.	3.3	90
103	Early MAVEN Deep Dip campaign reveals thermosphere and ionosphere variability. Science, 2015, 350, aad0459.	12.6	90
104	The role of Shabansky orbits in compressionâ€related electromagnetic ion cyclotron wave growth. Journal of Geophysical Research, 2012, 117, .	3.3	89
105	The Flyâ€™s Eye Energetic Particle Spectrometer (FEEPS) Sensors for the Magnetospheric Multiscale (MMS) Mission. Space Science Reviews, 2016, 199, 309-329.	8.1	89
106	Prompt energization of relativistic and highly relativistic electrons during a substorm interval: Van Allen Probes observations. Geophysical Research Letters, 2014, 41, 20-25.	4.0	88
107	Formation of energetic electron butterfly distributions by magnetosonic waves via Landau resonance. Geophysical Research Letters, 2016, 43, 3009-3016.	4.0	88
108	Analysis of GEO spacecraft anomalies: Space weather relationships. Space Weather, 2011, 9, .	3.7	87

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109	Simulation of the 23 July 2012 extreme space weather event: What if this extremely rare CME was Earth directed?. Space Weather, 2013, 11, 671-679.	3.7	87
110	Modeling inward diffusion and slow decay of energetic electrons in the Earth's outer radiation belt. Geophysical Research Letters, 2015, 42, 987-995.	4.0	87
111	MESSENGER and Mariner 10 flyby observations of magnetotail structure and dynamics at Mercury. Journal of Geophysical Research, 2012, 117, .	3.3	86
112	Quantitative Evaluation of Radial Diffusion and Local Acceleration Processes During GEM Challenge Events. Journal of Geophysical Research: Space Physics, 2018, 123, 1938-1952.	2.4	86
113	Role of the Russellâ€“McPherron effect in the acceleration of relativistic electrons. Journal of Atmospheric and Solar-Terrestrial Physics, 2009, 71, 1032-1044.	1.6	85
114	Distribution and compositional variations of plasma ions in Mercury's space environment: The first three Mercury years of MESSENGER observations. Journal of Geophysical Research: Space Physics, 2013, 118, 1604-1619.	2.4	85
115	Van Allen Probes observations of prompt MeV radiation belt electron acceleration in nonlinear interactions with VLF chorus. Journal of Geophysical Research: Space Physics, 2017, 122, 324-339.	2.4	85
116	Energetic Electrons in the Magnetosphere of Jupiter. Science, 1974, 183, 309-311.	12.6	84
117	Do Jovian electrons influence the terrestrial outer radiation zone?. Geophysical Research Letters, 1979, 6, 531-534.	4.0	84
118	Multisatellite measurements of relativistic electrons: Global coherence. Journal of Geophysical Research, 2001, 106, 29721-29732.	3.3	84
119	Energy content in the storm time ring current. Journal of Geophysical Research, 2001, 106, 19149-19156.	3.3	84
120	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.	2.4	84
121	Strong electron acceleration in the Earth's magnetosphere. Advances in Space Research, 1998, 21, 609-613.	2.6	83
122	Understanding the Mechanisms of Radiation Belt Dropouts Observed by Van Allen Probes. Journal of Geophysical Research: Space Physics, 2017, 122, 9858-9879.	2.4	83
123	Physical models of the geospace radiation environment. Journal of Atmospheric and Solar-Terrestrial Physics, 2004, 66, 1371-1387.	1.6	82
124	Physical mechanisms of compressional EMIC wave growth. Journal of Geophysical Research, 2010, 115, .	3.3	80
125	Deep dielectric charging effects due to high-energy electrons in earth's outer magnetosphere. Journal of Electrostatics, 1987, 20, 3-19.	1.9	79
126	MESSENGER observations of the plasma environment near Mercury. Planetary and Space Science, 2011, 59, 2004-2015.	1.7	78

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127	Upper limit on the inner radiation belt MeV electron intensity. Journal of Geophysical Research: Space Physics, 2015, 120, 1215-1228.	2.4	77
128	Radiation belt electron acceleration during the 17 March 2015 geomagnetic storm: Observations and simulations. Journal of Geophysical Research: Space Physics, 2016, 121, 5520-5536.	2.4	77
129	Acceleration of Particles to High Energies in Earthâ€™s Radiation Belts. Space Science Reviews, 2012, 173, 103-131.	8.1	74
130	Highâ€resolution energetic particle measurements at 6.6 R_E, 2. Highâ€energy proton drift echoes. Journal of Geophysical Research, 1978, 83, 4857-4862.	3.3	73
131	Satellite Anomalies due to Space Storms. , 2001, , 285-311.		73
132	Solar cycle changes, geomagnetic variations, and energetic particle properties in the inner magnetosphere. Journal of Atmospheric and Solar-Terrestrial Physics, 2008, 70, 195-206.	1.6	72
133	MESSENGER observations of dipolarization events in Mercury's magnetotail. Journal of Geophysical Research, 2012, 117, .	3.3	72
134	Aspects of Nonlinear Wave-Particle Interactions. Geophysical Monograph Series, 0, , 255-264.	0.1	72
135	Ultra-low-frequency wave-driven diffusion of radiation belt relativistic electrons. Nature Communications, 2015, 6, 10096.	12.8	71
136	What Causes Radiation Belt Enhancements: A Survey of the Van Allen Probes Era. Geophysical Research Letters, 2018, 45, 5253-5259.	4.0	71
137	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.	2.4	70
138	Long-term-average, solar cycle, and seasonal response of magnetospheric energetic electrons to the solar wind speed. Journal of Geophysical Research, 2002, 107, SMP 22-1.	3.3	68
139	Lowâ€altitude measurements of 2â€“6 MeV electron trapping lifetimes at 1.5 â‰¤ L â‰¤ 2.5. Geophysical Research Letters, 2007, 34, .	4.0	68
140	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.	2.4	68
141	What is space weather?. Advances in Space Research, 1998, 22, 7-16.	2.6	67
142	Modeling of the magnetosphere of Mercury at the time of the first MESSENGER flyby. Icarus, 2010, 209, 3-10.	2.5	67
143	Combined convective and diffusive simulations: VERBâ€4D comparison with 17 March 2013 Van Allen Probes observations. Geophysical Research Letters, 2015, 42, 9600-9608.	4.0	67
144	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.	2.4	67

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145	Direct evidence for EMIC wave scattering of relativistic electrons in space. Journal of Geophysical Research: Space Physics, 2016, 121, 6620-6631.	2.4	67
146	Nearâ€equatorial, highâ€resolution measurements of electron precipitation at L â‰ƒ 6.6. Journal of Geophysical Research, 1981, 86, 2295-2313.	3.3	66
147	Solar atmospheric coupling by electrons (SOLACE): 2. Calculated stratospheric effects of precipitating electrons, 1979-1988. Journal of Geophysical Research, 1998, 103, 28421-28438.	3.3	66
148	Behavior of MeV electrons at geosynchronous orbit during last two solar cycles. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	66
149	The Global Statistical Response of the Outer Radiation Belt During Geomagnetic Storms. Geophysical Research Letters, 2018, 45, 3783-3792.	4.0	66
150	Plasmaspheric hiss waves generate a reversed energy spectrum of radiation belt electrons. Nature Physics, 2019, 15, 367-372.	16.7	66
151	Observation and modeling of energetic particles at synchronous orbit on July 29, 1977. Journal of Geophysical Research, 1982, 87, 5917-5932.	3.3	65
152	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.	2.4	65
153	Observations of energetic electrons (Eâ‰³ 200 keV) in the Earth's magnetotail: Plasma sheet and Fireball observations. Journal of Geophysical Research, 1977, 82, 1532-1546.	3.3	62
154	Nearâ€Earth injection of MeV electrons associated with intense dipolarization electric fields: Van Allen Probes observations. Geophysical Research Letters, 2015, 42, 6170-6179.	4.0	62
155	Energetic electron anisotropies in the magnetotail: Identification of open and closed field lines. Geophysical Research Letters, 1976, 3, 557-560.	4.0	61
156	A model of impulsive acceleration and transport of energetic particles in Mercury's magnetosphere. Journal of Geophysical Research, 1986, 91, 8742-8748.	3.3	60
157	Energetic particle injections in the inner magnetosphere as a response to an interplanetary shock. Journal of Atmospheric and Solar-Terrestrial Physics, 2003, 65, 233-244.	1.6	60
158	Nonstorm time dynamics of electron radiation belts observed by the Van Allen Probes. Geophysical Research Letters, 2014, 41, 229-235.	4.0	60
159	Effects of the Sun on the Earth's environment. Journal of Atmospheric and Solar-Terrestrial Physics, 2000, 62, 1669-1681.	1.6	59
160	A statistical comparison of commonly used external magnetic field models. Space Weather, 2008, 6, .	3.7	59
161	Observations of the impenetrable barrier, the plasmapause, and the VLF bubble during the 17 March 2015 storm. Journal of Geophysical Research: Space Physics, 2016, 121, 5537-5548.	2.4	59
162	Magnetospheric configuration and energetic particle effects associated with a SSC: A case study of the CDAW 6 Event on March 22, 1979. Journal of Geophysical Research, 1986, 91, 1459-1473.	3.3	57

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163	IMF control of geomagnetic activity. Advances in Space Research, 1988, 8, 71-86.	2.6	56
164	Generation Processes of Whistler Mode Chorus Emissions: Current Status of Nonlinear Wave Growth Theory. Geophysical Monograph Series, 0, , 243-254.	0.1	56
165	Outer Radiation Belt Flux Dropouts: Current Understanding and Unresolved Questions. Geophysical Monograph Series, 0, , 195-212.	0.1	56
166	Formation of intense nose structures. Geophysical Research Letters, 2001, 28, 491-494.	4.0	55
167	MESSENGER: Exploring Mercuryâ€™s Magnetosphere. Space Science Reviews, 2007, 131, 133-160.	8.1	55
168	MESSENGER observations of Mercury's magnetosphere during northward IMF. Geophysical Research Letters, 2009, 36, .	4.0	55
169	Characteristic energy range of electron scattering due to plasmaspheric hiss. Journal of Geophysical Research: Space Physics, 2016, 121, 11,737.	2.4	54
170	Equinoctial and solstitial averages of magnetospheric relativistic electrons: A strong semiannual modulation. Geophysical Research Letters, 1999, 26, 3193-3196.	4.0	53
171	Dynamic relationship between the outer radiation belt and the plasmapause during Marchâ€“May 2001. Geophysical Research Letters, 2005, 32, .	4.0	53
172	Peculiar pitch angle distribution of relativistic electrons in the inner radiation belt and slot region. Geophysical Research Letters, 2014, 41, 2250-2257.	4.0	53
173	Precipitating electrons: Evidence for effects on mesospheric odd nitrogen. Geophysical Research Letters, 1996, 23, 1901-1904.	4.0	52
174	Ring current electron dynamics during geomagnetic storms based on the Van Allen Probes measurements. Journal of Geophysical Research: Space Physics, 2016, 121, 3333-3346.	2.4	52
175	Origin of two-band chorus in the radiation belt of Earth. Nature Communications, 2019, 10, 4672.	12.8	52
176	Statistical properties of the radiation belt seed population. Journal of Geophysical Research: Space Physics, 2016, 121, 7636-7646.	2.4	51
177	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.	4.0	51
178	The relation between the northern polar cap and auroral electrojet geomagnetic indices in the wintertime. Geophysical Research Letters, 1996, 23, 2781-2784.	4.0	50
179	Reconnection and scale-free avalanching in a driven current-sheet model. Journal of Geophysical Research, 2004, 109, .	3.3	50
180	Observations of the inner radiation belt: CRAND and trapped solar protons. Journal of Geophysical Research: Space Physics, 2014, 119, 6541-6552.	2.4	50

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181	Ion kinetic properties in Mercury's preâ€midnight plasma sheet. Geophysical Research Letters, 2014, 41, 5740-5747.	4.0	50
182	MESSENGER observations of magnetospheric substorm activity in Mercury's near magnetotail. Geophysical Research Letters, 2015, 42, 3692-3699.	4.0	50
183	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.	2.4	50
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