Y Y Shprits

List of Publications by Year
in descending order

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205 papers	10,416 citations	28190 55 h-index	40881 93 g-index
217 all docs	217 docs citations	217 times ranked	2454 citing authors

#	Article	IF	Citations
1	Wave acceleration of electrons in the Van Allen radiation belts. Nature, 2005, 437, 227-230.	13.7	505
2	Review of modeling of losses and sources of relativistic electrons in the outer radiation belt II: Local acceleration and loss. Journal of Atmospheric and Solar-Terrestrial Physics, 2008, 70, 1694-1713.	0.6	368
3	Explaining sudden losses of outer radiation belt electrons during geomagnetic storms. Nature Physics, 2012, 8, 208-212.	6.5	365
4	Outward radial diffusion driven by losses at magnetopause. Journal of Geophysical Research, 2006, 111, .	3.3	328
5	Resonant scattering of plasma sheet electrons by whistlerâ€mode chorus: Contribution to diffuse auroral precipitation. Geophysical Research Letters, 2008, 35, .	1.5	323
6	Dynamic evolution of energetic outer zone electrons due to waveâ€particle interactions during storms. Journal of Geophysical Research, 2007, 112, .	3.3	307
7	Timescale for MeV electron microburst loss during geomagnetic storms. Journal of Geophysical Research, 2005, 110, .	3.3	296
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	Review of modeling of losses and sources of relativistic electrons in the outer radiation belt I: Radial transport. Journal of Atmospheric and Solar-Terrestrial Physics, 2008, 70, 1679-1693.	0.6	197
10	Evolution of electron fluxes in the outer radiation belt computed with the VERB code. Journal of Geophysical Research, 2009, 114, .	3.3	183
11	Observation of two distinct, rapid loss mechanisms during the 20 November 2003 radiation belt dropout event. Journal of Geophysical Research, 2006, 111, .	3.3	172
12	Acceleration mechanism responsible for the formation of the new radiation belt during the 2003 Halloween solar storm. Geophysical Research Letters, 2006, 33, .	1.5	157
13	Threeâ€dimensional modeling of the radiation belts using the Versatile Electron Radiation Belt (VERB) code. Space Weather, 2009, 7, .	1.3	143
14	Unusual stable trapping of the ultrarelativistic electrons in the Van Allen radiation belts. Nature Physics, 2013, 9, 699-703.	6.5	143
15	Dependence of the quasiâ€linear scattering rates on the wave normal distribution of chorus waves. Journal of Geophysical Research, 2009, 114, .	3.3	138
16	Rapid scattering of radiation belt electrons by stormâ€time EMIC waves. Geophysical Research Letters, 2010, 37, .	1.5	135
17	Circulation of Heavy Ions and Their Dynamical Effects in the Magnetosphere: Recent Observations and Models. Space Science Reviews, 2014, 184, 173-235.	3.7	130
18	Resonant scattering of plasma sheet electrons leading to diffuse auroral precipitation: 2. Evaluation for whistler mode chorus waves. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	128

#	Article	IF	Citations
19	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
20	Wave-induced loss of ultra-relativistic electrons in the Van Allen radiation belts. Nature Communications, 2016, 7, 12883.	5.8	127
21	Time dependent radial diffusion modeling of relativistic electrons with realistic loss rates. Geophysical Research Letters, 2004, 31, .	1.5	124
22	Parameterization of radiation belt electron loss timescales due to interactions with chorus waves. Geophysical Research Letters, 2007, 34, .	1.5	122
23	Bounce-averaged diffusion coefficients for field-aligned chorus waves. Journal of Geophysical Research, 2006, 111, .	3.3	115
24	On the stormâ€time evolution of relativistic electron phase space density in Earth's outer radiation belt. Journal of Geophysical Research: Space Physics, 2013, 118, 2196-2212.	0.8	113
25	Typical properties of rising and falling tone chorus waves. Geophysical Research Letters, 2011, 38, n/a-n/a.	1.5	100
26	Controlling effect of the pitch angle scattering rates near the edge of the loss cone on electron lifetimes. Journal of Geophysical Research, 2006, 111, .	3.3	99
27	Threeâ€dimensional VERB radiation belt simulations including mixed diffusion. Journal of Geophysical Research, 2010, 115, .	3.3	94
28	Observations of discrete harmonics emerging from equatorial noise. Nature Communications, 2015, 6, 7703.	5.8	93
29	Multiâ€MeV electron loss in the heart of the radiation belts. Geophysical Research Letters, 2017, 44, 1204-1209.	1.5	89
30	Simulations of pitch angle scattering of relativistic electrons with MLTâ€dependent diffusion coefficients. Journal of Geophysical Research, 2009, 114, .	3.3	88
31	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
32	Resonant scattering of plasma sheet electrons leading to diffuse auroral precipitation: 1. Evaluation for electrostatic electron cyclotron harmonic waves. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	86
33	Gyro-resonant electron acceleration atÂJupiter. Nature Physics, 2008, 4, 301-304.	6.5	84
34	Potential waves for pitchâ€angle scattering of nearâ€equatorially mirroring energetic electrons due to the violation of the second adiabatic invariant. Geophysical Research Letters, 2009, 36, .	1.5	84
35	Radial diffusion modeling with empirical lifetimes: comparison with CRRES observations. Annales Geophysicae, 2005, 23, 1467-1471.	0.6	82
36	Refilling of the slot region between the inner and outer electron radiation belts during geomagnetic storms. Journal of Geophysical Research, 2007, 112, n/a-n/a.	3.3	82

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37	Global empirical models of plasmaspheric hiss using Van Allen Probes. Journal of Geophysical Research: Space Physics, 2015, 120, 10,370.	0.8	75
38	Long-term radiation belt simulation with the VERB 3-D code: Comparison with CRRES observations. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	74
39	Activityâ€dependent global model of electron loss inside the plasmasphere. Geophysical Research Letters, 2014, 41, 3744-3751.	1.5	71
40	Reanalysis of relativistic radiation belt electron fluxes using CRRES satellite data, a radial diffusion model, and a Kalman filter. Journal of Geophysical Research, 2007, 112, n/a-n/a.	3.3	70
41	Radial distributions of equatorial phase space density for outer radiation belt electrons. Geophysical Research Letters, 2012, 39, .	1.5	68
42	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
43	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
44	Evaluation of whistler mode chorus amplification during an injection event observed on CRRES. Journal of Geophysical Research, 2008, 113, .	3.3	66
45	New global loss model of energetic and relativistic electrons based on Van Allen Probes measurements. Journal of Geophysical Research: Space Physics, 2016, 121, 1308-1314.	0.8	66
46	Hot Plasma Effects on the Cyclotronâ€Resonant Pitchâ€Angle Scattering Rates of Radiation Belt Electrons Due to EMIC Waves. Geophysical Research Letters, 2018, 45, 21-30.	1.5	66
47	Understanding the dynamic evolution of the relativistic electron slot region including radial and pitch angle diffusion. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	65
48	Automated determination of electron density from electric field measurements on the Van Allen Probes spacecraft. Journal of Geophysical Research: Space Physics, 2016, 121, 4611-4625.	0.8	64
49	Dependence of pitchâ€angle scattering rates and loss timescales on the magnetic field model. Geophysical Research Letters, 2010, 37, .	1.5	63
50	Transport of the plasma sheet electrons to the geostationary distances. Journal of Geophysical Research: Space Physics, 2013, 118, 82-98.	0.8	63
51	Model Evaluation Guidelines for Geomagnetic Index Predictions. Space Weather, 2018, 16, 2079-2102.	1.3	62
52	Model of lifetimes of the outer radiation belt electrons in a realistic magnetic field using realistic chorus wave parameters. Journal of Geophysical Research: Space Physics, 2014, 119, 770-780.	0.8	59
53	Statistical analysis of phase space density buildups and dropouts. Journal of Geophysical Research, 2012, 117, .	3.3	58
54	The influence of wave-particle interactions on relativistic electron dynamics during storms. Geophysical Monograph Series, 2005, , 101-112.	0.1	56

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55	An improved dispersion relation for parallel propagating electromagnetic waves in warm plasmas: Application to electron scattering. Journal of Geophysical Research: Space Physics, 2013, 118, 2185-2195.	0.8	56
56	A Kalman filter technique to estimate relativistic electron lifetimes in the outer radiation belt. Journal of Geophysical Research, 2007, 112, .	3.3	55
57	Chorus-driven resonant scattering of diffuse auroral electrons in nondipolar magnetic fields. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	55
58	Empirical Modeling of the Plasmasphere Dynamics Using Neural Networks. Journal of Geophysical Research: Space Physics, 2017, 122, 11,227.	0.8	55
59	EMIC wave parameterization in the longâ€term VERB code simulation. Journal of Geophysical Research: Space Physics, 2017, 122, 8488-8501.	0.8	55
60	Diffuse auroral scattering by whistler mode chorus waves: Dependence on wave normal angle distribution. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	53
61	On the influence of solar wind conditions on the outerâ€electron radiation belt. Journal of Geophysical Research, 2012, 117, .	3.3	53
62	Statistical properties of the radiation belt seed population. Journal of Geophysical Research: Space Physics, 2016, 121, 7636-7646.	0.8	51
63	Gyroresonant interactions between the radiation belt electrons and whistler mode chorus waves in the radiation environments of Earth, Jupiter, and Saturn: A comparative study. Journal of Geophysical Research, 2012, 117, .	3.3	49
64	Chorus, ECH, and Z mode emissions observed at Jupiter and Saturn and possible electron acceleration. Journal of Geophysical Research, 2012, 117, .	3.3	49
65	Gap filling of solar wind data by singular spectrum analysis. Geophysical Research Letters, 2010, 37, .	1.5	47
66	The ELFIN Mission. Space Science Reviews, 2020, 216, 103.	3.7	47
67	Reanalyses of the radiation belt electron phase space density using nearly equatorial CRRES and polarâ€orbiting Akebono satellite observations. Journal of Geophysical Research, 2009, 114, .	3.3	46
68	Bounce resonance scattering of radiation belt electrons by H⁺ band EMIC waves. Journal of Geophysical Research: Space Physics, 2017, 122, 1702-1713.	0.8	44
69	Is the Dst Index Sufficient to Define All Geospace Storms?. Journal of Geophysical Research: Space Physics, 2017, 122, 11,543.	0.8	43
70	Analysis of radiation belt energetic electron phase space density using THEMIS SST measurements: Cross-satellite calibration and a case study. Journal of Geophysical Research, 2011, 116, .	3.3	42
71	Gyroâ€resonant scattering of radiation belt electrons during the solar minimum by fast magnetosonic waves. Journal of Geophysical Research: Space Physics, 2013, 118, 648-652.	0.8	42
72	Forecasting Kp from solar wind data: input parameter study using 3-hour averages and 3-hour range values. Journal of Space Weather and Space Climate, 2017, 7, A29.	1.1	41

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73	Pitch Angle Scattering of Subâ€MeV Relativistic Electrons by Electromagnetic Ion Cyclotron Waves. Journal of Geophysical Research: Space Physics, 2019, 124, 5610-5626.	0.8	41
74	Analytical Chorus Wave Model Derived from Van Allen Probe Observations. Journal of Geophysical Research: Space Physics, 2019, 124, 1063-1084.	0.8	40
75	Gyroresonant wave-particle interactions with chorus waves during extreme depletions of plasma density in the Van Allen radiation belts. Science Advances, 2021, 7, .	4.7	40
76	Local heating of radiation belt electrons to ultra-relativistic energies. Nature Communications, 2020, 11, 4533.	5.8	38
77	Reanalysis of relativistic radiation belt electron phase space density using multisatellite observations: Sensitivity to empirical magnetic field models. Journal of Geophysical Research, 2009, 114, .	3.3	37
78	Locations of boundaries of outer and inner radiation belts as observed by Cluster and Double Star. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	37
79	Parameterized lifetime of radiation belt electrons interacting with lowerâ€band and upperâ€band oblique chorus waves. Geophysical Research Letters, 2012, 39, .	1.5	37
80	Estimation of bounce resonant scattering by fast magnetosonic waves. Geophysical Research Letters, 2016, 43, 998-1006.	1.5	37
81	On How Highâ€Latitude Chorus Waves Tip the Balance Between Acceleration and Loss of Relativistic Electrons. Geophysical Research Letters, 2019, 46, 7945-7954.	1.5	37
82	Observations and Fokkerâ€Planck Simulations of the Lâ€Shell, Energy, and Pitch Angle Structure of Earth's Electron Radiation Belts During Quiet Times. Journal of Geophysical Research: Space Physics, 2019, 124, 1125-1142.	0.8	37
83	Mechanisms for the acceleration of radiation belt electrons. Geophysical Monograph Series, 2006, , 151-173.	0.1	36
84	On the bounce-averaging of scattering rates and the calculation of bounce period. Physics of Plasmas, 2011, 18, .	0.7	35
85	Scattering of Ultra-relativistic Electrons in the Van Allen Radiation Belts Accounting for Hot Plasma Effects. Scientific Reports, 2017, 7, 17719.	1.6	35
86	Application of a new data operatorâ€splitting data assimilation technique to the 3â€D VERB diffusion code and CRRES measurements. Geophysical Research Letters, 2013, 40, 4998-5002.	1.5	32
87	Space Radiation and Plasma Effects on Satellites and Aviation: Quantities and Metrics for Tracking Performance of Space Weather Environment Models. Space Weather, 2019, 17, 1384-1403.	1.3	32
88	Threeâ€dimensional data assimilation and reanalysis of radiation belt electrons: Observations of a fourâ€zone structure using five spacecraft and the VERB code. Journal of Geophysical Research: Space Physics, 2014, 119, 8764-8783.	0.8	31
89	The dynamics of Van Allen belts revisited. Nature Physics, 2018, 14, 102-103.	6.5	31
90	Medium Energy Electron Flux in Earth's Outer Radiation Belt (MERLIN): A Machine Learning Model. Space Weather, 2020, 18, e2020SW002532.	1.3	31

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91	Profound change of the nearâ€Earth radiation environment caused by solar superstorms. Space Weather, 2011, 9, .	1.3	30
92	Signatures of Ultrarelativistic Electron Loss in the Heart of the Outer Radiation Belt Measured by Van Allen Probes. Journal of Geophysical Research: Space Physics, 2017, 122, 10,102.	0.8	30
93	Offâ€equatorial chorus occurrence and wave amplitude distributions as observed by the Polar Plasma Wave Instrument. Journal of Geophysical Research, 2012, 117, .	3.3	29
94	Dependence of radiation belt simulations to assumed radial diffusion rates tested for two empirical models of radial transport. Space Weather, 2017, 15, 150-162.	1.3	29
95	Formation of electron radiation belts at Saturn by Z-mode wave acceleration. Nature Communications, 2018, 9, 5062.	5.8	29
96	Relativistic radiation belt electron responses to GEM magnetic storms: Comparison of CRRES observations with 3â€Đ VERB simulations. Journal of Geophysical Research, 2012, 117, .	3.3	28
97	Dependence of plasmaspheric hiss on solar wind parameters and geomagnetic activity and modeling of its global distribution. Journal of Geophysical Research: Space Physics, 2015, 120, 1153-1167.	0.8	28
98	Impact of space weather on the satellite industry. Space Weather, 2017, 15, 804-818.	1.3	28
99	Nowcasting and Predicting the Kp Index Using Historical Values and Realâ€Time Observations. Space Weather, 2019, 17, 1219-1229.	1.3	28
100	Investigating Loss of Relativistic Electrons Associated With EMIC Waves at Low L Values on 22 June 2015. Journal of Geophysical Research: Space Physics, 2019, 124, 4022-4036.	0.8	28
101	Sensitivity of EMIC Waveâ€Đriven Scattering Loss of Ring Current Protons to Wave Normal Angle Distribution. Geophysical Research Letters, 2019, 46, 590-598.	1.5	28
102	The Role of Hiss, Chorus, and EMIC Waves in the Modeling of the Dynamics of the Multiâ€MeV Radiation Belt Electrons. Journal of Geophysical Research: Space Physics, 2020, 125, e2020JA028282.	0.8	28
103	Systematic Analysis of Machine Learning and Feature Selection Techniques for Prediction of the Kp Index. Space Weather, 2019, 17, 1461-1486.	1.3	27
104	Statistical analysis of pitch angle distribution of radiation belt energetic electrons near the geostationary orbit: CRRES observations. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	26
105	On the latitudinal extent of chorus emissions as observed by the Polar Plasma Wave Instrument. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	26
106	Lognormal Kalman filter for assimilating phase space density data in the radiation belts. Space Weather, 2011, 9, .	1.3	26
107	Threeâ€dimensional radiation belt simulations in terms of adiabatic invariants using a single numerical grid. Journal of Geophysical Research, 2012, 117, .	3.3	26
108	The spectral extent of chorus in the offâ€equatorial magnetosphere. Journal of Geophysical Research: Space Physics, 2013, 118, 1700-1705.	0.8	25

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109	Responses of Earth's radiation belts to solar wind dynamic pressure variations in 2002 analyzed using multisatellite data and Kalman filtering. Journal of Geophysical Research: Space Physics, 2013, 118, 4400-4414.	0.8	24
110	Comparison of simulated and observed trapped and precipitating electron fluxes during a magnetic storm. Geophysical Research Letters, 2015, 42, 8302-8311.	1.5	24
111	The Effect of Plasma Boundaries on the Dynamic Evolution of Relativistic Radiation Belt Electrons. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027422.	0.8	24
112	Geomagnetic Activity Index Hpo. Geophysical Research Letters, 2022, 49, .	1.5	24
113	Survey of whistler mode chorus intensity at Jupiter. Journal of Geophysical Research: Space Physics, 2016, 121, 9758-9770.	0.8	23
114	Dynamic responses of the Earth's radiation belts during periods of solar wind dynamic pressure pulse based on normalized superposed epoch analysis. Journal of Geophysical Research: Space Physics, 2016, 121, 8523-8536.	0.8	23
115	Simulation of the acceleration of relativistic electrons in the inner magnetosphere using RCM-VERB coupled codes. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	22
116	Bounceâ€averaged diffusion coefficients due to resonant interaction of the outer radiation belt electrons with oblique chorus waves computed in a realistic magnetic field model. Journal of Geophysical Research, 2012, 117, .	3.3	22
117	Strong whistler mode waves observed in the vicinity of Jupiterâ€™s moons. Nature Communications, 2018, 9, 3131.	5.8	22
118	Rapid Electron Acceleration in Lowâ€Density Regions of Saturn's Radiation Belt by Whistler Mode Chorus Waves. Geophysical Research Letters, 2019, 46, 7191-7198.	1.5	22
119	Reconstruction of gaps in the past history of solar wind parameters. Geophysical Research Letters, 2014, 41, 2702-2707.	1.5	21
120	â€œLomonosovâ€•Satelliteâ€”Space Observatory to Study Extreme Phenomena in Space. Space Science Reviews, 2017, 212, 1705-1738.	3.7	21
121	Dynamic modeling of radiation belt electrons by radial diffusion simulation for a 2 month interval following the 24 March 1991 storm injection. Journal of Geophysical Research, 2010, 115, .	3.3	20
122	Electron acceleration at Jupiter: input from cyclotron-resonant interaction with whistler-mode chorus waves. Annales Geophysicae, 2013, 31, 1619-1630.	0.6	20
123	Dependence of the amplitude of magnetosonic waves on the solar wind and AE index using Van Allen Probes. Journal of Geophysical Research: Space Physics, 2017, 122, 6022-6034.	0.8	20
124	Intercalibration of the Plasma Density Measurements in Earth's Topside Ionosphere. Journal of Geophysical Research: Space Physics, 2021, 126, e2021JA029334.	0.8	20
125	Beating 1 Sievert: Optimal Radiation Shielding of Astronauts on a Mission to Mars. Space Weather, 2021, 19, e2021SW002749.	1.3	20
126	Electron flux changes in the outer radiation belt by radial diffusion during the storm recovery phase in comparison with the fully adiabatic evolution. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	19

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127	Survey analysis of chorus intensity at Saturn. Journal of Geophysical Research: Space Physics, 2014, 119, 8415-8425.	0.8	19
128	Statistical Analysis of Hiss Waves in Plasmaspheric Plumes Using Van Allen Probe Observations. Journal of Geophysical Research: Space Physics, 2019, 124, 1904-1915.	0.8	19
129	New hiss and chorus waves diffusion coefficient parameterizations from the Van Allen Probes and their effect on long-term relativistic electron radiation-belt VERB simulations. Journal of Atmospheric and Solar-Terrestrial Physics, 2019, 193, 105090.	0.6	19
130	Identifying Radiation Belt Electron Source and Loss Processes by Assimilating Spacecraft Data in a Threeâ€Dimensional Diffusion Model. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027514.	0.8	18
131	A Comparison of Radial Diffusion Coefficients in 1â€D and 3â€D Longâ€Term Radiation Belt Simulations. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA028707.	0.8	18
132	Reconstruction of Plasma Electron Density From Satellite Measurements Via Artificial Neural Networks. , 2018, , 301-327.		17
133	Storm Time Depletions of Multiâ€MeV Radiation Belt Electrons Observed at Different Pitch Angles. Journal of Geophysical Research: Space Physics, 2019, 124, 8943-8953.	0.8	17
134	Chorus functional dependencies derived from CRRES data. Geophysical Research Letters, 2013, 40, 3793-3797.	1.5	16
135	Empirically modeled global distribution of magnetospheric chorus amplitude using an artificial neural network. Journal of Geophysical Research: Space Physics, 2013, 118, 6243-6253.	0.8	15
136	A Geosynchronous Radiationâ€'belt Electron Empirical Prediction (GREEP) model. Space Weather, 2013, 11, 463-475.	1.3	15
137	Numerical applications of the advectiveâ€diffusive codes for the inner magnetosphere. Space Weather, 2016, 14, 993-1010.	1.3	15
138	On the propagation of uncertainties in radiation belt simulations. Space Weather, 2016, 14, 982-992.	1.3	15
139	Survey of the Favorable Conditions for Magnetosonic Wave Excitation. Journal of Geophysical Research: Space Physics, 2018, 123, 400-413.	0.8	15
140	Effects of Polarization Reversal on the Pitch Angle Scattering of Radiation Belt Electrons and Ring Current Protons by EMIC Waves. Geophysical Research Letters, 2020, 47, e2020GL089718.	1.5	15
141	The Space Weather Atmosphere Models and Indices (SWAMI) project: Overview and first results. Journal of Space Weather and Space Climate, 2020, 10, 18.	1.1	15
142	A Combined Neural Networkâ€and Physicsâ€Based Approach for Modeling Plasmasphere Dynamics. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA028077.	0.8	15
143	Spectrum of kinetic plasma turbulence at 0.3â€“0.9 astronomical units from the Sun. Physical Review E, 2021, 103, 063202.	0.8	15
144	Characterization of the energyâ€dependent response of riometer absorption. Journal of Geophysical Research: Space Physics, 2015, 120, 615-631.	0.8	14

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145	Simulation of highâ€energy radiation belt electron fluxes using NARMAXâ€VERB coupled codes. Journal of Geophysical Research: Space Physics, 2014, 119, 8073-8086.	0.8	13
146	Electron Intensity Measurements by the Cluster/RAPID/IES Instrument in Earth's Radiation Belts and Ring Current. Space Weather, 2019, 17, 553-566.	1.3	13
147	Quantifying the Effects of EMIC Wave Scattering and Magnetopause Shadowing in the Outer Electron Radiation Belt by Means of Data Assimilation. Journal of Geophysical Research: Space Physics, 2020, 125, e2020JA028208.	0.8	13
148	A New Population of Ultraâ€Relativistic Electrons in the Outer Radiation Zone. Journal of Geophysical Research: Space Physics, 2022, 127, .	0.8	13
149	Dispersion relation of electromagnetic ion cyclotron waves using Cluster observations. Annales Geophysicae, 2013, 31, 1437-1446.	0.6	12
150	Survey of Saturn Zâ€mode emission. Journal of Geophysical Research: Space Physics, 2015, 120, 6176-6187.	0.8	12
151	On the time needed to reach an equilibrium structure of the radiation belts. Journal of Geophysical Research: Space Physics, 2016, 121, 7684-7698.	0.8	12
152	The System Science Development of Local Timeâ€Dependent 40â€keV Electron Flux Models for Geostationary Orbit. Space Weather, 2019, 17, 894-906.	1.3	12
153	Long-term relativistic radiation belt electron responses to GEM magnetic storms. Journal of Atmospheric and Solar-Terrestrial Physics, 2013, 100-101, 59-67.	0.6	11
154	Transport and Loss of Ring Current Electrons Inside Geosynchronous Orbit During the 17 March 2013 Storm. Journal of Geophysical Research: Space Physics, 2019, 124, 915-933.	0.8	11
155	Bayesian Inference of Quasiâ€Linear Radial Diffusion Parameters using Van Allen Probes. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027618.	0.8	11
156	The in-situ exploration of Jupiterâ€™s radiation belts. Experimental Astronomy, 2022, 54, 745-789.	1.6	11
157	Fast injection of the relativistic electrons into the inner zone and the formation of the splitâ€zone structure during the Bastille Day storm in July 2000. Journal of Geophysical Research: Space Physics, 2016, 121, 8329-8342.	0.8	10
158	Interplanetary Shockâ€Induced Magnetopause Motion: Comparison Between Theory and Global Magnetohydrodynamic Simulations. Geophysical Research Letters, 2021, 48, e2021GL092554.	1.5	10
159	Depletions of Multiâ€MeV Electrons and Their Association to Minima in Phase Space Density. Geophysical Research Letters, 2022, 49, .	1.5	10
160	Importance of plasma injection events for energization of relativistic electrons in the Jovian magnetosphere. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	9
161	Controlled precipitation of energetic Van Allen belt protons by electromagnetic ion cyclotron (EMIC) waves. Space Weather, 2014, 12, 354-367.	1.3	9
162	Contamination in electron observations of the silicon detector on board Cluster/RAPID/IES instrument in Earth's radiation belts and ring current. Space Weather, 2016, 14, 449-462.	1.3	9

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163	A Comparison of the Location of the Midâ€Latitude Trough and Plasmapause Boundary. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA028213.	0.8	9
164	An Event on Simultaneous Amplification of Exohiss and Chorus Waves Associated With Electron Density Enhancements. Journal of Geophysical Research: Space Physics, 2018, 123, 8958-8968.	0.8	8
165	Radiation environment created with GCRs inside a spacecraft. Life Sciences in Space Research, 2020, 24, 116-121.	1.2	8
166	Preliminary Statistical Comparisons of Spinâ€Averaged Electron Data From Arase and Van Allen Probes Instruments. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA028929.	0.8	8
167	How whistler mode hiss waves and the plasmasphere drive the quiet decay of radiation belts electrons following a geomagnetic storm. Journal of Physics: Conference Series, 2020, 1623, 012005.	0.3	8
168	Combined model of topside ionosphere and plasmasphere derived from radio-occultation and Van Allen Probes data. Scientific Reports, 2022, 12, .	1.6	8
169	Estimation of radial gradients of phase space density from POLAR observations during a quiet period prior to a sudden solar wind dynamic pressure enhancement. Journal of Geophysical Research, 2010, 115, .	3.3	7
170	Scientific Objectives of Electron Losses and Fields INvestigation Onboard Lomonosov Satellite. Space Science Reviews, 2018, 214, 1.	3.7	7
171	Reanalysis of Ring Current Electron Phase Space Densities Using Van Allen Probe Observations, Convection Model, and Logâ€Normal Kalman Filter. Space Weather, 2019, 17, 619-638.	1.3	7
172	Modulation of Locally Generated Equatorial Noise by ULF Wave. Journal of Geophysical Research: Space Physics, 2019, 124, 2779-2787.	0.8	7
173	Adiabatic Invariants Calculations for Cluster Mission: A Longâ€Term Product for Radiation Belts Studies. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027576.	0.8	7
174	Acceleration of Electrons by Whistlerâ€Mode Hiss Waves at Saturn. Geophysical Research Letters, 2022, 49, .	1.5	7
175	Storm-Time Evolution of the Equatorial Electron Pitch Angle Distributions in Earthâ€™s Outer Radiation Belt. Frontiers in Astronomy and Space Sciences, 0, 9, .	1.1	7
176	Scattering rates of inner belt protons by EMIC waves: A comparison between test particle and diffusion simulations. Geophysical Research Letters, 2013, 40, 4793-4797.	1.5	6
177	Noise statistics identification for Kalman filtering of the electron radiation belt observations I: Model errors. Journal of Geophysical Research: Space Physics, 2014, 119, 5700-5724.	0.8	6
178	Inner magnetosphere coupling: Recent advances. Journal of Geophysical Research: Space Physics, 2017, 122, 102-104.	0.8	6
179	Simulations of the inner magnetospheric energetic electrons using the IMPTAM-VERB coupled model. Journal of Atmospheric and Solar-Terrestrial Physics, 2019, 191, 105050.	0.6	6
180	Ray-tracing simulation of the radiation dose distribution on the surface of the spherical phantom of the MATROSHKA-R experiment onboard the ISS. Life Sciences in Space Research, 2019, 21, 65-72.	1.2	6

#	Article	IF	Citations
181	Quantifying the Effect of Plasmaspheric Hiss on the Electron Loss From the Slot Region. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027555.	0.8	6
182	Reconstruction of the Radiation Belts for Solar Cycles 17â€“24 (1933â€“2017). Space Weather, 2021, 19, e2020SW002524.	1.3	6
183	Reconstructing the Dynamics of the Outer Electron Radiation Belt by Means of the Standard and Ensemble Kalman Filter With the VERBâ€3D Code. Space Weather, 2021, 19, e2020SW002672.	1.3	6
184	Interactions between energetic electrons and realistic whistler mode waves in the Jovian magnetosphere. Journal of Geophysical Research: Space Physics, 2017, 122, 5355-5364.	0.8	5
185	NARX Neural Network Derivations of the Outer Boundary Radiation Belt Electron Flux. Space Weather, 2022, 20, .	1.3	5
186	Identification of Controlling Geomagnetic and Solar Wind Factors for Magnetospheric Chorus Intensity Using Feature Selection Techniques. Journal of Geophysical Research: Space Physics, 2022, 127, .	0.8	5
187	Radial gradients of phase space density in the inner electron radiation. Journal of Geophysical Research, 2012, 117, .	3.3	4
188	Correction to â€œParameterized lifetime of radiation belt electrons interacting with lower-band and upper-band oblique chorus waveâ€• Geophysical Research Letters, 2012, 39, n/a-n/a.	1.5	4
189	Saturn chorus latitudinal variations. Journal of Geophysical Research: Space Physics, 2014, 119, 4656-4667.	0.8	4
190	Spectra of Saturnâ€™s proton belts revealed. Icarus, 2022, 376, 114795.	1.1	4
191	Losses of Radiation Belt Energetic Particles by Encounters With Four of the Inner Moons of Jupiter. Journal of Geophysical Research E: Planets, 2022, 127, .	1.5	4
192	An artificial neural network model of electron fluxes in the Earthâ€™s central plasma sheet: a THEMIS survey. Astrophysics and Space Science, 2020, 365, 1.	0.5	3
193	Exploring solar-terrestrial interactions via multiple imaging observers. Experimental Astronomy, 0, , 1.	1.6	3
194	Identification of Coronal Holes on AIA/SDO Images Using Unsupervised Machine Learning. Astrophysical Journal, 2022, 930, 118.	1.6	3
195	Maximum Energies of Trapped Particles Around Magnetized Planets and Small Bodies. Geophysical Research Letters, 2022, 49, .	1.5	3
196	An Empirical Model of the Equatorial Electron Pitch Angle Distributions in Earth's Outer Radiation Belt. Space Weather, 2022, 20, .	1.3	3
197	Which Parameter Controls Ring Current Electron Dynamics. Frontiers in Astronomy and Space Sciences, 0, 9, .	1.1	3
198	Coupling Processes in the Inner Magnetosphere: Inner Magnetosphere Coupling (IMC) Workshop; Espoo, Finland, 28 July to 1 August 2008. Eos, 2008, 89, 532.	0.1	2

#	Article	IF	Citations
199	Noise statistics identification for Kalman filtering of the electron radiation belt observations: 2. Filtration and smoothing. Journal of Geophysical Research: Space Physics, 2014, 119, 5725-5743.	0.8	2
200	Scattering of relativistic and ultra-relativistic electrons by obliquely propagating Electromagnetic Ion Cyclotron waves. Journal of Atmospheric and Solar-Terrestrial Physics, 2016, 148, 22-31.	0.6	2
201	Does Spacecraft Potential Depend on the Ambient Electron Density?. IEEE Transactions on Plasma Science, 2017, 45, 2875-2884.	0.6	2
202	Progress in understanding the inner magnetosphere. Eos, 2012, 93, 348-348.	0.1	1
203	Editorial: Topical Collection on the Lomonosov Mission. Space Science Reviews, 2017, 212, 1685-1686.	3.7	1
204	Reflection of low-frequency fast magnetosonic waves at the local two-ion cutoff frequency: observation in the plasmasphere. Annales Geophysicae, 2021, 39, 613-625.	0.6	1
205	Chorus probability and wave power distributions as observed by the Polar Plasma Wave Instrument. , 2011, , .		0