

S R Elkington

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

60
papers

3,944
citations

30
h-index

62
g-index

65
ext. papers

4,385
ext. citations

3.7
avg, IF

5.02
L-index

#	Paper	IF	Citations
60	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	7.5	383
59	Acceleration of relativistic electrons via drift-resonant interaction with toroidal-mode Pc-5 ULF oscillations. <i>Geophysical Research Letters</i> , 1999 , 26, 3273-3276	4.9	348
58	Resonant acceleration and diffusion of outer zone electrons in an asymmetric geomagnetic field. <i>Journal of Geophysical Research</i> , 2003 , 108,		317
57	Review of modeling of losses and sources of relativistic electrons in the outer radiation belt II: Local acceleration and loss. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2008 , 70, 1694-1713	2	315
56	The Relativistic Electron-Proton Telescope (REPT) Instrument on Board the Radiation Belt Storm Probes (RBSP) Spacecraft: Characterization of Earth's Radiation Belt High-Energy Particle Populations. <i>Space Science Reviews</i> , 2013 , 179, 337-381	7.5	264
55	A long-lived relativistic electron storage ring embedded in Earth's outer Van Allen belt. <i>Science</i> , 2013 , 340, 186-90	33.3	179
54	Review of modeling of losses and sources of relativistic electrons in the outer radiation belt I: Radial transport. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2008 , 70, 1679-1693	2	177
53	Solar wind driving of magnetospheric ULF waves: Pulsations driven by velocity shear at the magnetopause. <i>Journal of Geophysical Research</i> , 2008 , 113, n/a-n/a		158
52	Source and seed populations for relativistic electrons: Their roles in radiation belt changes. <i>Journal of Geophysical Research: Space Physics</i> , 2015 , 120, 7240-7254	2.6	156
51	Radial diffusion and MHD particle simulations of relativistic electron transport by ULF waves in the September 1998 storm. <i>Journal of Geophysical Research</i> , 2006 , 111,		130
50	Simulations of radiation belt formation during storm sudden commencements. <i>Journal of Geophysical Research</i> , 1997 , 102, 14087-14102		128
49	ULF wave derived radiation belt radial diffusion coefficients. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		83
48	Incorporating spectral characteristics of Pc5 waves into three-dimensional radiation belt modeling and the diffusion of relativistic electrons. <i>Journal of Geophysical Research</i> , 2005 , 110,		76
47	Physical models of the geospace radiation environment. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2004 , 66, 1371-1387	2	76
46	The role of Shabansky orbits in compression-related electromagnetic ion cyclotron wave growth. <i>Journal of Geophysical Research</i> , 2012 , 117,		74
45	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	2.6	73
44	Physical mechanisms of compressional EMIC wave growth. <i>Journal of Geophysical Research</i> , 2010 , 115, n/a-n/a		69

43	Relativistic electron loss due to ultralow frequency waves and enhanced outward radial diffusion. <i>Journal of Geophysical Research</i> , 2010 , 115, n/a-n/a		66
42	Electric and magnetic field observations of Pc4 and Pc5 pulsations in the inner magnetosphere: A statistical study. <i>Journal of Geophysical Research</i> , 2009 , 114, n/a-n/a		64
41	MHD/particle simulations of radiation belt dynamics. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2002 , 64, 607-615	2	62
40	Magnetospheric cavity modes driven by solar wind dynamic pressure fluctuations. <i>Geophysical Research Letters</i> , 2009 , 36,	4.9	55
39	A Review of ULF Interactions with Radiation Belt Electrons. <i>Geophysical Monograph Series</i> , 2006 , 177-193	1.1	55
38	Quantifying radial diffusion coefficients of radiation belt electrons based on global MHD simulation and spacecraft measurements. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		52
37	Electric and magnetic radial diffusion coefficients using the Van Allen probes data. <i>Journal of Geophysical Research: Space Physics</i> , 2016 , 121, 9586-9607	2.6	49
36	Modeling radiation belt radial diffusion in ULF wave fields: 2. Estimating rates of radial diffusion using combined MHD and particle codes. <i>Journal of Geophysical Research</i> , 2010 , 115, n/a-n/a		44
35	The radial gradient of relativistic electrons at geosynchronous orbit. <i>Journal of Geophysical Research</i> , 2004 , 109,		44
34	Ground-based magnetometer determination of in situ Pc4B ULF electric field wave spectra as a function of solar wind speed. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		41
33	Characterization of ULF pulsations by THEMIS. <i>Geophysical Research Letters</i> , 2009 , 36,	4.9	39
32	On the relation between radiation belt electrons and solar wind parameters/geomagnetic indices: Dependence on the first adiabatic invariant and L*. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 1624-1642	2.6	30
31	Modeling EMIC wave growth during the compression event of 29 June 2007. <i>Geophysical Research Letters</i> , 2009 , 36,	4.9	30
30	Multiyear Measurements of Radiation Belt Electrons: Acceleration, Transport, and Loss. <i>Journal of Geophysical Research: Space Physics</i> , 2019 , 124, 2588-2602	2.6	26
29	The Relativistic Electron-Proton Telescope (REPT) Instrument on Board the Radiation Belt Storm Probes (RBSP) Spacecraft: Characterization of Earth's Radiation Belt High-Energy Particle Populations 2012 , 337-381		26
28	Fast Diffusion of Ultrarelativistic Electrons in the Outer Radiation Belt: 17 March 2015 Storm Event. <i>Geophysical Research Letters</i> , 2018 , 45, 10874-10882	4.9	26
27	Kinetic Alfvén waves and particle response associated with a shock-induced, global ULF perturbation of the terrestrial magnetosphere. <i>Geophysical Research Letters</i> , 2015 , 42, 9203-9212	4.9	21
26	Radiation Belt Electron Acceleration by ULF Wave Drift Resonance: Simulation of 1997 and 1998 Storms. <i>Geophysical Monograph Series</i> , 2013 , 289-296	1.1	21

25	Magnetic field power spectra and magnetic radial diffusion coefficients using CRRES magnetometer data. <i>Journal of Geophysical Research: Space Physics</i> , 2015 , 120, 973-995	2.6	20
24	Three-dimensional stochastic modeling of radiation belts in adiabatic invariant coordinates. <i>Journal of Geophysical Research: Space Physics</i> , 2014 , 119, 7615-7635	2.6	18
23	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	2.6	15
22	The Role of Pc-5 ULF Waves in the Radiation Belts: Current Understanding and Open Questions 2016 , 80-101		15
21	MHD/Particle Simulations of Radiation Belt Formation During a Storm Sudden Commencement. <i>Geophysical Monograph Series</i> , 2013 , 57-62	1.1	14
20	Injection of Energetic Ions During the 31 March 0630 Substorm. <i>Geophysical Monograph Series</i> , 2005 , 147-154	1.1	14
19	Radiation belt 2D and 3D simulations for CIR-driven storms during Carrington Rotation 2068. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2012 , 83, 51-62	2	13
18	Convective and diffusive ULF wave driven radiation belt electron transport. <i>Journal of Geophysical Research</i> , 2011 , 116, n/a-n/a		12
17	Global control of merging by the interplanetary magnetic field: Cluster observations of dawnside flank magnetopause reconnection. <i>Journal of Geophysical Research</i> , 2004 , 109,		10
16	Global Structure of ULF Waves During the 24-26 September 1998 Geomagnetic Storm. <i>Geophysical Monograph Series</i> , 2013 , 127-138	1.1	8
15	A Comparison of Radial Diffusion Coefficients in 1-D and 3-D Long-Term Radiation Belt Simulations. <i>Journal of Geophysical Research: Space Physics</i> , 2021 , 126, e2020JA028707	2.6	7
14	Effects of magnetic drift shell splitting on electron diffusion in the radiation belts. <i>Journal of Geophysical Research: Space Physics</i> , 2016 , 121, 11,985	2.6	6
13	Characterizing spacecraft potential effects on measured particle trajectories. <i>Physics of Plasmas</i> , 2019 , 26, 103504	2.1	5
12	Uncovering the nonadiabatic response of geosynchronous electrons to geomagnetic disturbance. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		5
11	Wavelet Compression Performance of MMS/FPI Plasma Count Data with Plasma Environment. <i>Earth and Space Science</i> , 2019 , 6, 116-135	3.1	4
10	Drift echoes and flux oscillations: A signature of prompt and diffusive changes in the radiation belts. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2020 , 207, 105332	2	4
9	The Relativistic Electron-Proton Telescope (REPT) Investigation: Design, Operational Properties, and Science Highlights. <i>Space Science Reviews</i> , 2021 , 217, 1	7.5	4
8	Ultralow frequency-wave induced losses 2020 , 29-48		3

7	Van Allen Probes Observations of Multi-MeV Electron Drift-Periodic Flux Oscillations in Earth's Outer Radiation Belt During the March 2017 Event. <i>Journal of Geophysical Research: Space Physics</i> , 2021 , 126, e2021JA029284	2.6	3
6	Testing the Organization of Lower-Band Whistler-Mode Chorus Wave Properties by Plasmapause Location. <i>Journal of Geophysical Research: Space Physics</i> , 2021 , 126, e2020JA028458	2.6	2
5	EMIC Waves in the Earth's Inner Magnetosphere as a Function of Solar Wind Structures During Solar Maximum. <i>Journal of Geophysical Research: Space Physics</i> , 2020 , 125, e2020JA027990	2.6	2
4	Physically Accurate Large Dynamic Range Pseudo Moments for the MMS Fast Plasma Investigation. <i>Earth and Space Science</i> , 2018 , 5, 503-515	3.1	1
3	Modeling advective transport of radiation belt electrons. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2021 , 214, 105509	2	1
2	Neural Network Repair of Lossy Compression Artifacts in the September 2015 to March 2016 Duration of the MMS/FPI Data Set. <i>Journal of Geophysical Research: Space Physics</i> , 2020 , 125, e2019JA027181	2.6	0
1	MHD-Test Particles Simulations of Moderate CME and CIR-Driven Geomagnetic Storms at Solar Minimum. <i>Space Weather</i> , 2021 , 19, e2021SW002882	3.7	0