

# S R Elkington

## List of Publications by Year in Descending Order

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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 | MHD-Test Particles Simulations of Moderate CME and CIR-Driven Geomagnetic Storms at Solar Minimum. <i>Space Weather</i> , <b>2021</b> , 19, e2021SW002882  | 3.7 | 0         |
| 59 | Testing the Organization of Lower-Band Whistler-Mode Chorus Wave Properties by Plasmapause Location. <i>Journal of Geophysical Research: Space Physics</i> , <b>2021</b> , 126, e2020JA028458  | 2.6 | 2         |
| 58 | The Relativistic Electron-Proton Telescope (REPT) Investigation: Design, Operational Properties, and Science Highlights. <i>Space Science Reviews</i> , <b>2021</b> , 217, 1   | 7.5 | 4         |
| 57 | Modeling advective transport of radiation belt electrons. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , <b>2021</b> , 214, 105509  | 2   | 1         |
| 56 | 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> , <b>2021</b> , 126, e2021JA029284 | 2.6 | 3         |
| 55 | 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> , <b>2021</b> , 126, e2020JA028707  | 2.6 | 7         |
| 54 | 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> , <b>2020</b> , 125, e2019JA027181                        | 2.6 | 0         |
| 53 | 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> , <b>2020</b> , 207, 105332  | 2   | 4         |
| 52 | Ultralow frequency-wave induced losses <b>2020</b> , 29-48   |     | 3         |
| 51 | 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> , <b>2020</b> , 125, e2020JA027990  | 2.6 | 2         |
| 50 | Multiyear Measurements of Radiation Belt Electrons: Acceleration, Transport, and Loss. <i>Journal of Geophysical Research: Space Physics</i> , <b>2019</b> , 124, 2588-2602  | 2.6 | 26        |
| 49 | Wavelet Compression Performance of MMS/FPI Plasma Count Data with Plasma Environment. <i>Earth and Space Science</i> , <b>2019</b> , 6, 116-135  | 3.1 | 4         |
| 48 | Characterizing spacecraft potential effects on measured particle trajectories. <i>Physics of Plasmas</i> , <b>2019</b> , 26, 103504  | 2.1 | 5         |
| 47 | Physically Accurate Large Dynamic Range Pseudo Moments for the MMS Fast Plasma Investigation. <i>Earth and Space Science</i> , <b>2018</b> , 5, 503-515  | 3.1 | 1         |
| 46 | Fast Diffusion of Ultrarelativistic Electrons in the Outer Radiation Belt: 17 March 2015 Storm Event. <i>Geophysical Research Letters</i> , <b>2018</b> , 45, 10874-10882  | 4.9 | 26        |
| 45 | 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> , <b>2017</b> , 122, 1624-1642   | 2.6 | 30        |
| 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> , <b>2016</b> , 121, 6647-6660                       | 2.6 | 73        |

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| 43 | Electric and magnetic radial diffusion coefficients using the Van Allen probes data. <i>Journal of Geophysical Research: Space Physics</i> , <b>2016</b> , 121, 9586-9607   | 2.6  | 49  |
| 42 | The Role of Pc-5 ULF Waves in the Radiation Belts: Current Understanding and Open Questions <b>2016</b> , 80-101  |      | 15  |
| 41 | Effects of magnetic drift shell splitting on electron diffusion in the radiation belts. <i>Journal of Geophysical Research: Space Physics</i> , <b>2016</b> , 121, 11,985   | 2.6  | 6   |
| 40 | Source and seed populations for relativistic electrons: Their roles in radiation belt changes. <i>Journal of Geophysical Research: Space Physics</i> , <b>2015</b> , 120, 7240-7254   | 2.6  | 156 |
| 39 | Kinetic Alfvén waves and particle response associated with a shock-induced, global ULF perturbation of the terrestrial magnetosphere. <i>Geophysical Research Letters</i> , <b>2015</b> , 42, 9203-9212   | 4.9  | 21  |
| 38 | 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> , <b>2015</b> , 120, 7629-7641       | 2.6  | 15  |
| 37 | Magnetic field power spectra and magnetic radial diffusion coefficients using CRRES magnetometer data. <i>Journal of Geophysical Research: Space Physics</i> , <b>2015</b> , 120, 973-995   | 2.6  | 20  |
| 36 | Three-dimensional stochastic modeling of radiation belts in adiabatic invariant coordinates. <i>Journal of Geophysical Research: Space Physics</i> , <b>2014</b> , 119, 7615-7635   | 2.6  | 18  |
| 35 | 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> , <b>2013</b> , 179, 311-336                              | 7.5  | 383 |
| 34 | Global Structure of ULF Waves During the 24-26 September 1998 Geomagnetic Storm. <i>Geophysical Monograph Series</i> , <b>2013</b> , 127-138  | 1.1  | 8   |
| 33 | A long-lived relativistic electron storage ring embedded in Earth's outer Van Allen belt. <i>Science</i> , <b>2013</b> , 340, 186-90  | 33.3 | 179 |
| 32 | 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> , <b>2013</b> , 179, 337-381 | 7.5  | 264 |
| 31 | Radiation Belt Electron Acceleration by ULF Wave Drift Resonance: Simulation of 1997 and 1998 Storms. <i>Geophysical Monograph Series</i> , <b>2013</b> , 289-296   | 1.1  | 21  |
| 30 | MHD/Particle Simulations of Radiation Belt Formation During a Storm Sudden Commencement. <i>Geophysical Monograph Series</i> , <b>2013</b> , 57-62  | 1.1  | 14  |
| 29 | Uncovering the nonadiabatic response of geosynchronous electrons to geomagnetic disturbance. <i>Journal of Geophysical Research</i> , <b>2012</b> , 117, n/a-n/a  |      | 5   |
| 28 | Radiation belt 2D and 3D simulations for CIR-driven storms during Carrington Rotation 2068. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , <b>2012</b> , 83, 51-62   | 2    | 13  |
| 27 | The role of Shabansky orbits in compression-related electromagnetic ion cyclotron wave growth. <i>Journal of Geophysical Research</i> , <b>2012</b> , 117,  |      | 74  |
| 26 | Ground-based magnetometer determination of in situ Pc4 ULF electric field wave spectra as a function of solar wind speed. <i>Journal of Geophysical Research</i> , <b>2012</b> , 117, n/a-n/a   |      | 41  |

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| 25 | ULF wave derived radiation belt radial diffusion coefficients. <i>Journal of Geophysical Research</i> , <b>2012</b> , 117, n/a-n/a   |     | 83  |
| 24 | Quantifying radial diffusion coefficients of radiation belt electrons based on global MHD simulation and spacecraft measurements. <i>Journal of Geophysical Research</i> , <b>2012</b> , 117, n/a-n/a                      |     | 52  |
| 23 | 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 <b>2012</b> , 337-381 |     | 26  |
| 22 | Convective and diffusive ULF wave driven radiation belt electron transport. <i>Journal of Geophysical Research</i> , <b>2011</b> , 116, n/a-n/a  |     | 12  |
| 21 | 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> , <b>2010</b> , 115, n/a-n/a            |     | 44  |
| 20 | Physical mechanisms of compressional EMIC wave growth. <i>Journal of Geophysical Research</i> , <b>2010</b> , 115, n/a-n/a   |     | 69  |
| 19 | Relativistic electron loss due to ultralow frequency waves and enhanced outward radial diffusion. <i>Journal of Geophysical Research</i> , <b>2010</b> , 115, n/a-n/a  |     | 66  |
| 18 | Magnetospheric cavity modes driven by solar wind dynamic pressure fluctuations. <i>Geophysical Research Letters</i> , <b>2009</b> , 36,  | 4-9 | 55  |
| 17 | Modeling EMIC wave growth during the compression event of 29 June 2007. <i>Geophysical Research Letters</i> , <b>2009</b> , 36,  | 4-9 | 30  |
| 16 | Electric and magnetic field observations of Pc4 and Pc5 pulsations in the inner magnetosphere: A statistical study. <i>Journal of Geophysical Research</i> , <b>2009</b> , 114, n/a-n/a                                    |     | 64  |
| 15 | Characterization of ULF pulsations by THEMIS. <i>Geophysical Research Letters</i> , <b>2009</b> , 36,  | 4-9 | 39  |
| 14 | Solar wind driving of magnetospheric ULF waves: Pulsations driven by velocity shear at the magnetopause. <i>Journal of Geophysical Research</i> , <b>2008</b> , 113, n/a-n/a   |     | 158 |
| 13 | 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> , <b>2008</b> , 70, 1694-1713  | 2   | 315 |
| 12 | 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> , <b>2008</b> , 70, 1679-1693              | 2   | 177 |
| 11 | A Review of ULF Interactions with Radiation Belt Electrons. <i>Geophysical Monograph Series</i> , <b>2006</b> , 177-193  | 1.1 | 55  |
| 10 | Radial diffusion and MHD particle simulations of relativistic electron transport by ULF waves in the September 1998 storm. <i>Journal of Geophysical Research</i> , <b>2006</b> , 111,                                     |     | 130 |
| 9  | Incorporating spectral characteristics of Pc5 waves into three-dimensional radiation belt modeling and the diffusion of relativistic electrons. <i>Journal of Geophysical Research</i> , <b>2005</b> , 110,                |     | 76  |
| 8  | Injection of Energetic Ions During the 31 March 0630 Substorm. <i>Geophysical Monograph Series</i> , <b>2005</b> , 147-154   | 1.1 | 14  |

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|---|---|-----|-----|
| 7 | Physical models of the geospace radiation environment. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , <b>2004</b> , 66, 1371-1387  | 2   | 76  |
| 6 | Global control of merging by the interplanetary magnetic field: Cluster observations of dawnside flank magnetopause reconnection. <i>Journal of Geophysical Research</i> , <b>2004</b> , 109, |     | 10  |
| 5 | The radial gradient of relativistic electrons at geosynchronous orbit. <i>Journal of Geophysical Research</i> , <b>2004</b> , 109,  |     | 44  |
| 4 | Resonant acceleration and diffusion of outer zone electrons in an asymmetric geomagnetic field. <i>Journal of Geophysical Research</i> , <b>2003</b> , 108,                                   |     | 317 |
| 3 | MHD/particle simulations of radiation belt dynamics. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , <b>2002</b> , 64, 607-615  | 2   | 62  |
| 2 | Acceleration of relativistic electrons via drift-resonant interaction with toroidal-mode Pc-5 ULF oscillations. <i>Geophysical Research Letters</i> , <b>1999</b> , 26, 3273-3276             | 4.9 | 348 |
| 1 | Simulations of radiation belt formation during storm sudden commencements. <i>Journal of Geophysical Research</i> , <b>1997</b> , 102, 14087-14102  |     | 128 |