

Craig J Rodger

List of Publications by Citations

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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.

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|--------------------|-------------------------|----------------|-----------------|
| 234 papers | 6,907 citations | 45 h-index | 70 g-index |
| 259 ext. papers | 7,917 ext. citations | 3.5 avg, IF | 5.88 L-index |

| # | Paper | IF | Citations |
|-----|---|------|-----------|
| 234 | VLF lightning location by time of group arrival (TOGA) at multiple sites. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2002 , 64, 817-830 | 2 | 214 |
| 233 | Solar forcing for CMIP6 (v3.2). <i>Geoscientific Model Development</i> , 2017 , 10, 2247-2302 | 6.3 | 199 |
| 232 | Detection efficiency of the VLF World-Wide Lightning Location Network (WWLLN): initial case study. <i>Annales Geophysicae</i> , 2006 , 24, 3197-3214 | 2 | 177 |
| 231 | Use of POES SEM-2 observations to examine radiation belt dynamics and energetic electron precipitation into the atmosphere. <i>Journal of Geophysical Research</i> , 2010 , 115, n/a-n/a | | 173 |
| 230 | ELF and VLF radio waves. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2000 , 62, 1689-1718 | 2 | 172 |
| 229 | Relative detection efficiency of the World Wide Lightning Location Network. <i>Radio Science</i> , 2012 , 47, n/a-n/a | 1.4 | 138 |
| 228 | Impact of different energies of precipitating particles on NO _x generation in the middle and upper atmosphere during geomagnetic storms. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2009 , 71, 1176-1189 | 2 | 133 |
| 227 | Diurnal variation of ozone depletion during the October-November 2003 solar proton events. <i>Journal of Geophysical Research</i> , 2005 , 110, | | 123 |
| 226 | Red sprites, upward lightning, and VLF perturbations. <i>Reviews of Geophysics</i> , 1999 , 37, 317-336 | 23.1 | 121 |
| 225 | Missing driver in the Sun-Earth connection from energetic electron precipitation impacts mesospheric ozone. <i>Nature Communications</i> , 2014 , 5, 5197 | 17.4 | 119 |
| 224 | Geomagnetic activity and polar surface air temperature variability. <i>Journal of Geophysical Research</i> , 2009 , 114, n/a-n/a | | 117 |
| 223 | WWLL global lightning detection system: Regional validation study in Brazil. <i>Geophysical Research Letters</i> , 2004 , 31, | 4.9 | 110 |
| 222 | Large solar flares and their ionospheric D region enhancements. <i>Journal of Geophysical Research</i> , 2005 , 110, | | 105 |
| 221 | Location accuracy of VLF World-Wide Lightning Location (WWLL) network: Post-algorithm upgrade. <i>Annales Geophysicae</i> , 2005 , 23, 277-290 | 2 | 104 |
| 220 | Carbon emissions from international cruise ship passengers travel to and from New Zealand. <i>Energy Policy</i> , 2010 , 38, 2552-2560 | 7.2 | 102 |
| 219 | Energetic electron precipitation associated with pulsating aurora: EISCAT and Van Allen Probe observations. <i>Journal of Geophysical Research: Space Physics</i> , 2015 , 120, 2754-2766 | 2.6 | 95 |
| 218 | Observations of relativistic electron precipitation from the radiation belts driven by EMIC waves. <i>Geophysical Research Letters</i> , 2008 , 35, | 4.9 | 87 |

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| 217 | Far-Field Power of Lightning Strokes as Measured by the World Wide Lightning Location Network. <i>Journal of Atmospheric and Oceanic Technology</i> , 2012 , 29, 1102-1110 | 2 | 86 |
| 216 | Growing Detection Efficiency of the World Wide Lightning Location Network 2009 , | | 83 |
| 215 | Location accuracy of long distance VLF lightning location network. <i>Annales Geophysicae</i> , 2004 , 22, 747-758 | | 82 |
| 214 | Geomagnetic activity signatures in wintertime stratosphere wind, temperature, and wave response. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 2169-2183 | 4.4 | 81 |
| 213 | Radiation belt electron precipitation due to VLF transmitters: Satellite observations. <i>Geophysical Research Letters</i> , 2008 , 35, | 4.9 | 80 |
| 212 | Ionosphere gives size of greatest solar flare. <i>Geophysical Research Letters</i> , 2004 , 31, n/a-n/a | 4.9 | 80 |
| 211 | Remote sensing space weather events: Antarctic-Arctic Radiation-belt (Dynamic) Deposition-VLF Atmospheric Research Consortium network. <i>Space Weather</i> , 2009 , 7, n/a-n/a | 3.7 | 79 |
| 210 | POES satellite observations of EMIC-wave driven relativistic electron precipitation during 1998-2010. <i>Journal of Geophysical Research: Space Physics</i> , 2013 , 118, 232-243 | 2.6 | 71 |
| 209 | Total solar eclipse effects on VLF signals: Observations and modeling. <i>Radio Science</i> , 2001 , 36, 773-788 | 1.4 | 65 |
| 208 | Radiation belt electron precipitation into the atmosphere: Recovery from a geomagnetic storm. <i>Journal of Geophysical Research</i> , 2007 , 112, n/a-n/a | | 64 |
| 207 | First evidence of mesospheric hydroxyl response to electron precipitation from the radiation belts. <i>Journal of Geophysical Research</i> , 2011 , 116, | | 62 |
| 206 | Contrasting the efficiency of radiation belt losses caused by ducted and nonducted whistler-mode waves from ground-based transmitters. <i>Journal of Geophysical Research</i> , 2010 , 115, n/a-n/a | | 60 |
| 205 | Destruction of the tertiary ozone maximum during a solar proton event. <i>Geophysical Research Letters</i> , 2006 , 33, | 4.9 | 60 |
| 204 | Local time variation in land/ocean lightning flash density as measured by the World Wide Lightning Location Network. <i>Journal of Geophysical Research</i> , 2007 , 112, | | 59 |
| 203 | Carbon emission offsets for aviation-generated emissions due to international travel to and from New Zealand. <i>Energy Policy</i> , 2009 , 37, 3438-3447 | 7.2 | 56 |
| 202 | Subionospheric VLF perturbations associated with lightning discharges. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2003 , 65, 591-606 | 2 | 55 |
| 201 | High-resolution in situ observations of electron precipitation-causing EMIC waves. <i>Geophysical Research Letters</i> , 2015 , 42, 9633-9641 | 4.9 | 52 |
| 200 | Electron precipitation from EMIC waves: A case study from 31 May 2013. <i>Journal of Geophysical Research: Space Physics</i> , 2015 , 120, 3618-3631 | 2.6 | 52 |

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| 199 | Radiation belt electron precipitation by man-made VLF transmissions. <i>Journal of Geophysical Research</i> , 2008 , 113, | | 52 |
| 198 | Lower ionospheric modification by lightning-EMP: Simulation of the night ionosphere over the United States. <i>Geophysical Research Letters</i> , 2001 , 28, 199-202 | 4.9 | 52 |
| 197 | Comparison between POES energetic electron precipitation observations and riometer absorptions: Implications for determining true precipitation fluxes. <i>Journal of Geophysical Research: Space Physics</i> , 2013 , 118, 7810-7821 | 2.6 | 51 |
| 196 | Evidence of sub-MeV EMIC-driven electron precipitation. <i>Geophysical Research Letters</i> , 2017 , 44, 1210-1218 | 4.8 | 48 |
| 195 | Significance of lightning-generated whistlers to inner radiation belt electron lifetimes. <i>Journal of Geophysical Research</i> , 2003 , 108, | | 48 |
| 194 | Relaxation of transient ionization in the lower ionosphere. <i>Journal of Geophysical Research</i> , 1998 , 103, 6969-6975 | | 48 |
| 193 | Sunrise effects on VLF signals propagating over a long north-south path. <i>Radio Science</i> , 1999 , 34, 939-948 | 4.4 | 48 |
| 192 | Precipitating radiation belt electrons and enhancements of mesospheric hydroxyl during 2004-2009. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a | | 47 |
| 191 | Contrasting the responses of three different ground-based instruments to energetic electron precipitation. <i>Radio Science</i> , 2012 , 47, n/a-n/a | 1.4 | 47 |
| 190 | Ground-based transmitter signals observed from space: Ducted or nonducted?. <i>Journal of Geophysical Research</i> , 2008 , 113, n/a-n/a | | 45 |
| 189 | NO _x enhancements in the middle atmosphere during 2003-2004 polar winter: Relative significance of solar proton events and the aurora as a source. <i>Journal of Geophysical Research</i> , 2007 , 112, | | 42 |
| 188 | A model providing long-term data sets of energetic electron precipitation during geomagnetic storms. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016 , 121, 12,520-12,540 | 4.4 | 42 |
| 187 | Daytime midlatitude D region parameters at solar minimum from short-path VLF phase and amplitude. <i>Journal of Geophysical Research</i> , 2011 , 116, | | 41 |
| 186 | Ground-based estimates of outer radiation belt energetic electron precipitation fluxes into the atmosphere. <i>Journal of Geophysical Research</i> , 2010 , 115, n/a-n/a | | 41 |
| 185 | Substorm-induced energetic electron precipitation: Impact on atmospheric chemistry. <i>Geophysical Research Letters</i> , 2015 , 42, 8172-8176 | 4.9 | 40 |
| 184 | The effects of hard-spectra solar proton events on the middle atmosphere. <i>Journal of Geophysical Research</i> , 2008 , 113, n/a-n/a | | 40 |
| 183 | World-wide lightning location using VLF propagation in the Earth-ionosphere waveguide. <i>IEEE Antennas and Propagation Magazine</i> , 2008 , 50, 40-60 | 1.7 | 38 |
| 182 | Modeling a large solar proton event in the southern polar atmosphere. <i>Journal of Geophysical Research</i> , 2005 , 110, | | 38 |

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| 181 | Dynamic geomagnetic rigidity cutoff variations during a solar proton event. <i>Journal of Geophysical Research</i> , 2006 , 111, | | 38 |
| 180 | The plasmasphere during a space weather event: first results from the PLASMON project. <i>Journal of Space Weather and Space Climate</i> , 2013 , 3, A23 | 2.5 | 37 |
| 179 | Seeking sprite-induced signatures in remotely sensed middle atmosphere NO ₂ . <i>Geophysical Research Letters</i> , 2008 , 35, | 4.9 | 36 |
| 178 | Ionospheric evidence of thermosphere-to-stratosphere descent of polar NO _x . <i>Geophysical Research Letters</i> , 2006 , 33, | 4.9 | 36 |
| 177 | Longitudinal hotspots in the mesospheric OH variations due to energetic electron precipitation. <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 1095-1105 | 6.8 | 35 |
| 176 | Investigating seismoionospheric effects on a long subionospheric path. <i>Journal of Geophysical Research</i> , 1999 , 104, 28171-28179 | | 35 |
| 175 | Nature's Grand Experiment: Linkage between magnetospheric convection and the radiation belts. <i>Journal of Geophysical Research: Space Physics</i> , 2016 , 121, 171-189 | 2.6 | 35 |
| 174 | Confirmation of EMIC wave-driven relativistic electron precipitation. <i>Journal of Geophysical Research: Space Physics</i> , 2016 , 121, 5366-5383 | 2.6 | 33 |
| 173 | Energetic electron precipitation during substorm injection events: High-latitude fluxes and an unexpected midlatitude signature. <i>Journal of Geophysical Research</i> , 2008 , 113, | | 33 |
| 172 | Direct observations of nitric oxide produced by energetic electron precipitation into the Antarctic middle atmosphere. <i>Geophysical Research Letters</i> , 2011 , 38, n/a-n/a | 4.9 | 32 |
| 171 | Sprite observations in the Northern Territory of Australia. <i>Journal of Geophysical Research</i> , 2000 , 105, 4689-4697 | | 32 |
| 170 | Global Distribution of Superbolts. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019 , 124, 9996-10005. | 4.4 | 31 |
| 169 | Energetic particle precipitation into the middle atmosphere triggered by a coronal mass ejection. <i>Journal of Geophysical Research</i> , 2007 , 112, n/a-n/a | | 31 |
| 168 | The importance of atmospheric precipitation in storm-time relativistic electron flux drop outs. <i>Geophysical Research Letters</i> , 2006 , 33, n/a-n/a | 4.9 | 31 |
| 167 | VLF line radiation observed by satellite. <i>Journal of Geophysical Research</i> , 1995 , 100, 5681 | | 31 |
| 166 | The structure of red sprites determined by VLF scattering. <i>IEEE Antennas and Propagation Magazine</i> , 1996 , 38, 7-15 | 1.7 | 31 |
| 165 | Polar Ozone Response to Energetic Particle Precipitation Over Decadal Time Scales: The Role of Medium-Energy Electrons. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018 , 123, 607-622 | 4.4 | 30 |
| 164 | Determining the spectra of radiation belt electron losses: Fitting DEMETER electron flux observations for typical and storm times. <i>Journal of Geophysical Research: Space Physics</i> , 2013 , 118, 7611-7623 | 2.6 | 30 |

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| 163 | POES MEPED differential flux retrievals and electron channel contamination correction. <i>Journal of Geophysical Research: Space Physics</i> , 2015 , 120, 4596-4612 | 2.6 | 29 |
| 162 | Long-Lasting Geomagnetically Induced Currents and Harmonic Distortion Observed in New Zealand During the 78 September 2017 Disturbed Period. <i>Space Weather</i> , 2018 , 16, 704-717 | 3.7 | 28 |
| 161 | Temporal evolution of very strong Trimpis observed at Darwin, Australia. <i>Geophysical Research Letters</i> , 1997 , 24, 2419-2422 | 4.9 | 28 |
| 160 | Significance of transient luminous events to neutral chemistry: Experimental measurements. <i>Geophysical Research Letters</i> , 2008 , 35, n/a-n/a | 4.9 | 28 |
| 159 | Modeling Geoelectric Fields and Geomagnetically Induced Currents Around New Zealand to Explore GIC in the South Island's Electrical Transmission Network. <i>Space Weather</i> , 2017 , 15, 1396-1412 | 3.7 | 27 |
| 158 | Long-term geomagnetically induced current observations in New Zealand: Earth return corrections and geomagnetic field driver. <i>Space Weather</i> , 2017 , 15, 1020-1038 | 3.7 | 27 |
| 157 | Modeling polar ionospheric effects during the October/November 2003 solar proton events. <i>Radio Science</i> , 2006 , 41, n/a-n/a | 1.4 | 27 |
| 156 | An Updated Model Providing Long-Term Data Sets of Energetic Electron Precipitation, Including Zonal Dependence. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018 , 123, 9891-9915 | 4.4 | 27 |
| 155 | Pitch Angle Scattering of Sub-MeV Relativistic Electrons by Electromagnetic Ion Cyclotron Waves. <i>Journal of Geophysical Research: Space Physics</i> , 2019 , 124, 5610-5626 | 2.6 | 26 |
| 154 | Energetic particle injection, acceleration, and loss during the geomagnetic disturbances which upset Galaxy 15. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a | | 26 |
| 153 | Relationship between median intensities of electromagnetic emissions in the VLF range and lightning activity. <i>Journal of Geophysical Research</i> , 2010 , 115, n/a-n/a | | 26 |
| 152 | Radiation belt electron precipitation due to geomagnetic storms: Significance to middle atmosphere ozone chemistry. <i>Journal of Geophysical Research</i> , 2010 , 115, n/a-n/a | | 26 |
| 151 | Additional stratospheric NO _x production by relativistic electron precipitation during the 2004 spring NO _x descent event. <i>Journal of Geophysical Research</i> , 2009 , 114, n/a-n/a | | 26 |
| 150 | Determining the size of lightning-induced electron precipitation patches. <i>Journal of Geophysical Research</i> , 2002 , 107, SIA 10-1-SIA 10-11 | | 26 |
| 149 | Substorm-induced energetic electron precipitation: Morphology and prediction. <i>Journal of Geophysical Research: Space Physics</i> , 2015 , 120, 2993-3008 | 2.6 | 25 |
| 148 | Occurrence characteristics of relativistic electron microbursts from SAMPEX observations. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 8096-8107 | 2.6 | 25 |
| 147 | Measurements of the VLF scattering pattern of the structured plasma of red sprites. <i>IEEE Antennas and Propagation Magazine</i> , 1998 , 40, 29-38 | 1.7 | 25 |
| 146 | Long-Term Geomagnetically Induced Current Observations From New Zealand: Peak Current Estimates for Extreme Geomagnetic Storms. <i>Space Weather</i> , 2017 , 15, 1447-1460 | 3.7 | 24 |

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| 145 | Long-term determination of energetic electron precipitation into the atmosphere from AARDDVARK subionospheric VLF observations. <i>Journal of Geophysical Research: Space Physics</i> , 2015 , 120, 2194-2211 | 2.6 | 24 |
| 144 | Temporal variability of the descent of high-altitude NOX inferred from ionospheric data. <i>Journal of Geophysical Research</i> , 2007 , 112, n/a-n/a | | 24 |
| 143 | Is magnetospheric line radiation man-made?. <i>Journal of Geophysical Research</i> , 2000 , 105, 15981-15990 | | 24 |
| 142 | Relativistic microburst storm characteristics: Combined satellite and ground-based observations. <i>Journal of Geophysical Research</i> , 2010 , 115, n/a-n/a | | 23 |
| 141 | Latitudinal extent of the January 2005 solar proton event in the Northern Hemisphere from satellite observations of hydroxyl. <i>Annales Geophysicae</i> , 2007 , 25, 2203-2215 | 2 | 23 |
| 140 | A search for ELF/VLF activity associated with earthquakes using ISIS satellite data. <i>Journal of Geophysical Research</i> , 1996 , 101, 13369-13378 | | 23 |
| 139 | A reexamination of latitudinal limits of substorm-produced energetic electron precipitation. <i>Journal of Geophysical Research: Space Physics</i> , 2013 , 118, 6694-6705 | 2.6 | 22 |
| 138 | Carbon dioxide emissions from international air freight. <i>Atmospheric Environment</i> , 2011 , 45, 7036-7045 | 5.3 | 22 |
| 137 | The Role of Localized Compressional Ultra-low Frequency Waves in Energetic Electron Precipitation. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 1900 | 2.6 | 21 |
| 136 | Source region for whistlers detected at Rothera, Antarctica. <i>Journal of Geophysical Research</i> , 2011 , 116, | | 21 |
| 135 | New Directions for Radiation Belt Research. <i>Space Weather</i> , 2009 , 7, n/a-n/a | 3.7 | 21 |
| 134 | Lightning-driven inner radiation belt energy deposition into the atmosphere: implications for ionisation-levels and neutral chemistry. <i>Annales Geophysicae</i> , 2007 , 25, 1745-1757 | 2 | 21 |
| 133 | Transformer-Level Modeling of Geomagnetically Induced Currents in New Zealand's South Island. <i>Space Weather</i> , 2018 , 16, 718-735 | 3.7 | 21 |
| 132 | Logarithmic decay and Doppler shift of plasma associated with sprites. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 1998 , 60, 741-753 | 2 | 20 |
| 131 | Atmospheric impact of the Carrington event solar protons. <i>Journal of Geophysical Research</i> , 2008 , 113, | | 20 |
| 130 | Storm time, short-lived bursts of relativistic electron precipitation detected by subionospheric radio wave propagation. <i>Journal of Geophysical Research</i> , 2007 , 112, n/a-n/a | | 20 |
| 129 | Temporal properties of magnetospheric line radiation. <i>Journal of Geophysical Research</i> , 2000 , 105, 329-336 | | 20 |
| 128 | Investigating energetic electron precipitation through combining ground-based and balloon observations. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 534-546 | 2.6 | 19 |

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| 127 | Low-latitude ionospheric D region dependence on solar zenith angle. <i>Journal of Geophysical Research: Space Physics</i> , 2014 , 119, 6865-6875 | 2.6 | 19 |
| 126 | Rapid Radiation Belt Losses Occurring During High-Speed Solar Wind Stream-Driven Storms: Importance of Energetic Electron Precipitation. <i>Geophysical Monograph Series</i> , 2013 , 213-224 | 1.1 | 19 |
| 125 | Comparison of modeled and observed effects of radiation belt electron precipitation on mesospheric hydroxyl and ozone. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 11,419-11,428 | 4.4 | 19 |
| 124 | Subionospheric early VLF perturbations observed at Suva: VLF detection of red sprites in the day?. <i>Journal of Geophysical Research</i> , 2008 , 113, n/a-n/a | | 19 |
| 123 | VLF scattering from red sprites: Vertical columns of ionization in the Earth-ionosphere waveguide. <i>Radio Science</i> , 1999 , 34, 913-921 | 1.4 | 19 |
| 122 | Solar Forcing for CMIP6 (v3.1) 2016 , | | 19 |
| 121 | Empirical determination of solar proton access to the atmosphere: Impact on polar flight paths. <i>Space Weather</i> , 2013 , 11, 420-433 | 3.7 | 18 |
| 120 | Seeking sprite-induced signatures in remotely sensed middle atmosphere NO ₂ : latitude and time variations. <i>Plasma Sources Science and Technology</i> , 2009 , 18, 034014 | 3.5 | 18 |
| 119 | Decay of a vertical plasma column: A model to explain VLF sprites. <i>Geophysical Research Letters</i> , 1997 , 24, 2765-2768 | 4.9 | 18 |
| 118 | Scattering of VLF from an experimentally described sprite. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 1998 , 60, 765-769 | 2 | 18 |
| 117 | Magnetospheric line radiation observations at Halley, Antarctica. <i>Journal of Geophysical Research</i> , 1999 , 104, 17441-17447 | | 18 |
| 116 | Modeling of subionospheric VLF signal perturbations associated with earthquakes. <i>Radio Science</i> , 1999 , 34, 1177-1185 | 1.4 | 18 |
| 115 | Assessment of GIC Based On Transfer Function Analysis. <i>Space Weather</i> , 2017 , 15, 1615-1627 | 3.7 | 17 |
| 114 | VLF scattering from Red Sprites—Theory. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 1998 , 60, 755-763 | 2 | 17 |
| 113 | The atmospheric implications of radiation belt remediation. <i>Annales Geophysicae</i> , 2006 , 24, 2025-2041 | 2 | 17 |
| 112 | Observations and Modeling of Increased Nitric Oxide in the Antarctic Polar Middle Atmosphere Associated With Geomagnetic Storm-Driven Energetic Electron Precipitation. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 6009-6025 | 2.6 | 16 |
| 111 | Multi-instrument Observation of Nonlinear EMIC-Driven Electron Precipitation at sub-MeV Energies. <i>Geophysical Research Letters</i> , 2019 , 46, 7248-7257 | 4.9 | 16 |
| 110 | Survey of magnetospheric line radiation events observed by the DEMETER spacecraft. <i>Journal of Geophysical Research</i> , 2009 , 114, n/a-n/a | | 16 |

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| 109 | Electromagnetic scattering from a group of thin conducting cylinders. <i>Radio Science</i> , 1997 , 32, 907-912 | 1.4 | 16 |
| 108 | REMOTE SENSING OF THE UPPER ATMOSPHERE BY VLF 2006 , 167-190 | | 16 |
| 107 | Relativistic Electron Microburst Events: Modeling the Atmospheric Impact. <i>Geophysical Research Letters</i> , 2018 , 45, 1141-1147 | 4.9 | 15 |
| 106 | The effects and correction of the geometric factor for the POES/MEPED electron flux instrument using a multisatellite comparison. <i>Journal of Geophysical Research: Space Physics</i> , 2014 , 119, 6386-6404 | 2.6 | 15 |
| 105 | Midlatitude ionospheric D region: Height, sharpness, and solar zenith angle. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 8933-8946 | 2.6 | 15 |
| 104 | Links between mesopause temperatures and ground-based VLF narrowband radio signals. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 4244-4255 | 4.4 | 15 |
| 103 | Modeling the relaxation of red sprite plasma. <i>Geophysical Research Letters</i> , 1999 , 26, 3293-3296 | 4.9 | 15 |
| 102 | VLF scattering from red sprites: Application of numerical modeling. <i>Radio Science</i> , 1999 , 34, 923-932 | 1.4 | 15 |
| 101 | Nonlinear and Synergistic Effects of ULF Pc5, VLF Chorus, and EMIC Waves on Relativistic Electron Flux at Geosynchronous Orbit. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 4755-4766 | 2.6 | 14 |
| 100 | Energetic outer radiation belt electron precipitation during recurrent solar activity. <i>Journal of Geophysical Research</i> , 2010 , 115, n/a-n/a | | 14 |
| 99 | Are whistler ducts created by thunderstorm electrostatic fields?. <i>Journal of Geophysical Research</i> , 1998 , 103, 2163-2169 | | 14 |
| 98 | Telluric Field Variations as Drivers of Variations in Cathodic Protection Potential on a Natural Gas Pipeline in New Zealand. <i>Space Weather</i> , 2018 , 16, 1396-1409 | 3.7 | 14 |
| 97 | Characteristics of precipitating energetic electron fluxes relative to the plasmopause during geomagnetic storms. <i>Journal of Geophysical Research: Space Physics</i> , 2014 , 119, 8784-8800 | 2.6 | 13 |
| 96 | Sunset transition of negative charge in the D-region ionosphere during high-ionization conditions. <i>Annales Geophysicae</i> , 2006 , 24, 187-202 | 2 | 13 |
| 95 | Decay of whistler-induced electron precipitation and cloud-ionosphere electrical discharge Trimpis: Observations and analysis. <i>Radio Science</i> , 2001 , 36, 151-169 | 1.4 | 13 |
| 94 | A Distributed Lag Autoregressive Model of Geostationary Relativistic Electron Fluxes: Comparing the Influences of Waves, Seed and Source Electrons, and Solar Wind Inputs. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 3646-3671 | 2.6 | 13 |
| 93 | Combined THEMIS and ground-based observations of a pair of substorm-associated electron precipitation events. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a | | 12 |
| 92 | Global lightning distribution and whistlers observed at Dunedin, New Zealand. <i>Annales Geophysicae</i> , 2010 , 28, 499-513 | 2 | 12 |

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| 91 | Space shuttle observation of an unusual transient atmospheric emission. <i>Geophysical Research Letters</i> , 2005 , 32, | 4.9 | 12 |
| 90 | Radiation belt electron precipitation fluxes associated with lightning. <i>Journal of Geophysical Research</i> , 2004 , 109, | | 12 |
| 89 | Inner radiation belt electron lifetimes due to whistler-induced electron precipitation (WEP) driven losses. <i>Geophysical Research Letters</i> , 2002 , 29, 30-1-30-4 | 4.9 | 12 |
| 88 | Atmospheric Effects of >30-keV Energetic Electron Precipitation in the Southern Hemisphere Winter During 2003. <i>Journal of Geophysical Research: Space Physics</i> , 2019 , 124, 8138-8153 | 2.6 | 12 |
| 87 | Energetic electron precipitation and auroral morphology at the substorm recovery phase. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 6508-6527 | 2.6 | 11 |
| 86 | Characteristics of Relativistic Microburst Intensity From SAMPEX Observations. <i>Journal of Geophysical Research: Space Physics</i> , 2019 , 124, 5627-5640 | 2.6 | 11 |
| 85 | Comparison of Relativistic Microburst Activity Seen by SAMPEX With Ground-Based Wave Measurements at Halley, Antarctica. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 1279-1294 | 2.6 | 11 |
| 84 | Semi-annual oscillation (SAO) of the nighttime ionospheric D-region as detected through ground-based VLF receivers. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 3279-3288 | 6.8 | 11 |
| 83 | Generation of EMIC Waves and Effects on Particle Precipitation During a Solar Wind Pressure Intensification With $B_z > 0$. <i>Journal of Geophysical Research: Space Physics</i> , 2019 , 124, 4492-4508 | 2.6 | 11 |
| 82 | Temporal-spatial modeling of electron density enhancement due to successive lightning strokes. <i>Journal of Geophysical Research</i> , 2010 , 115, n/a-n/a | | 11 |
| 81 | Simultaneous observation of chorus and hiss near the plasmopause. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a | | 11 |
| 80 | Correlation between global lightning and whistlers observed at Tihany, Hungary. <i>Journal of Geophysical Research</i> , 2009 , 114, n/a-n/a | | 11 |
| 79 | Testing the importance of precipitation loss mechanisms in the inner radiation belt. <i>Geophysical Research Letters</i> , 2004 , 31, n/a-n/a | 4.9 | 11 |
| 78 | Lightning driven inner radiation belt energy deposition into the atmosphere: regional and global estimates. <i>Annales Geophysicae</i> , 2005 , 23, 3419-3430 | 2 | 11 |
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