# A J Coster

## List of Publications by Year in descending order



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|---|---|---|---|
| 161 papers | 7,351 citations | 50276 46 h-index | 64796 79 g-index |
| 181 all docs | 181 docs citations | 181 times ranked | 3347 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Automated GPS processing for global total electron content data. GPS Solutions, 2006, 10, 219-228. | 4.3 | 432 |
| 2 | Global dayside ionospheric uplift and enhancement associated with interplanetary electric fields. Journal of Geophysical Research, 2004, 109, . | 3.3 | 401 |
| 3 | Ionospheric signatures of plasmaspheric tails. Geophysical Research Letters, 2002, 29, 1-1. | 4.0 | 270 |
| 4 | Science with the Murchison Widefield Array. Publications of the Astronomical Society of Australia, 2013, 30, . | 3.4 | 260 |
| 5 | Multiradar observations of the polar tongue of ionization. Journal of Geophysical Research, 2005, 110, . | 3.3 | 255 |
| 6 | Unexpected connections between the stratosphere and ionosphere. Geophysical Research Letters, 2010, 37, . | 4.0 | 241 |
| 7 | Comparison of Measurements of Atmospheric Wet Delay by Radiosonde, Water Vapor Radiometer, GPS, and VLBI. Journal of Atmospheric and Oceanic Technology, 2001, 18, 830-850. | 1.3 | 233 |
| 8 | Impact of sudden stratospheric warmings on equatorial ionization anomaly. Journal of Geophysical Research, 2010, 115, . | 3.3 | 197 |
| 9 | Mediumâ€scale traveling ionospheric disturbances detected with dense and wide TEC maps over North America. Geophysical Research Letters, 2007, 34, . | 4.0 | 194 |
| 10 | A quantitative explanation for the phenomenon known as storm-enhanced density. Geophysical Research Letters, 2004, 31, . | 4.0 | 122 |
| 11 | Observations and simulations of the ionospheric and thermospheric response to the December 2006 geomagnetic storm: Initial phase. Journal of Geophysical Research, 2008, 113, . | 3.3 | 120 |
| 12 | The potential role of stratospheric ozone in the stratosphereâ€ionosphere coupling during stratospheric warmings. Geophysical Research Letters, 2012, 39, . | 4.0 | 104 |
| 13 | Ionospheric effects of sudden stratospheric warming during moderateâ€toâ€high solar activity: Case study of January 2013. Geophysical Research Letters, 2013, 40, 4982-4986. | 4.0 | 102 |
| 14 | Imaging the structure of a large-scale TID using ISR and TEC data. Geophysical Research Letters, 2004, 31, n/a-n/a. | 4.0 | 100 |
| 15 | A strong positive phase of ionospheric storms observed by the Millstone Hill incoherent scatter radar and global GPS network. Journal of Geophysical Research, 2005, 110, . | 3.3 | 100 |
| 16 | Stormtime observations of the flux of plasmaspheric ions to the dayside cusp/magnetopause. Geophysical Research Letters, 2004, 31, . | 4.0 | 99 |
| 17 | GNSS Observations of Ionospheric Variations During the 21 August 2017 Solar Eclipse. Geophysical Research Letters, 2017, 44, 12,041. | 4.0 | 97 |
| 18 | Direct observations of the role of convection electric field in the formation of a polar tongue of ionization from storm enhanced density. Journal of Geophysical Research: Space Physics, 2013, 118, 1180-1189. | 2.4 | 93 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Statistical framework for estimating GNSS bias. Atmospheric Measurement Techniques, 2016, 9, 1303-1312. | 3.1 | 92 |
| 20 | 2022 Tonga Volcanic Eruption Induced Global Propagation of Ionospheric Disturbances via Lamb Waves. Frontiers in Astronomy and Space Sciences, 2022, 9, . | 2.8 | 92 |
| 21 | Ionospheric Bow Waves and Perturbations Induced by the 21 August 2017 Solar Eclipse. Geophysical Research Letters, 2017, 44, 12,067. | 4.0 | 91 |
| 22 | Accuracy of GPS total electron content: GPS receiver bias temperature dependence. Radio Science, 2013, 48, 190-196. | 1.6 | 90 |
| 23 | Space weather effects of October?November 2003. GPS Solutions, 2004, 8, 267-271. | 4.3 | 78 |
| 24 | A technique for calculating meteor plasma density and meteoroid mass from radar head echo scattering. Icarus, 2004, 168, 43-52. | 2.5 | 75 |
| 25 | Ionospheric response to the initial phase of geomagnetic storms: Common features. Journal of Geophysical Research, 2010, 115, . | 3.3 | 75 |
| 26 | Ionospheric and thermospheric variations associated with prompt penetration electric fields. Journal of Geophysical Research, 2012, 117, . | 3.3 | 74 |
| 27 | On the generation/decay of the stormâ€enhanced density plumes: Role of the convection flow and fieldâ€aligned ion flow. Journal of Geophysical Research: Space Physics, 2014, 119, 8543-8559. | 2.4 | 74 |
| 28 | Observations of a positive storm phase on September 10, 2005. Journal of Atmospheric and Solar-Terrestrial Physics, 2007, 69, 1253-1272. | 1.6 | 68 |
| 29 | Space Weather and the Global Positioning System. Space Weather, 2008, 6, . | 3.7 | 68 |
| 30 | Magnetic declination and zonal wind effects on longitudinal differences of ionospheric electron density at midlatitudes. Journal of Geophysical Research, 2012, 117, . | 3.3 | 68 |
| 31 | East-West Coast differences in total electron content over the continental US. Geophysical Research Letters, 2011, 38, n/a-n/a. | 4.0 | 67 |
| 32 | Solar Flare and Geomagnetic Storm Effects on the Thermosphere and Ionosphere During 6â€“11 September 2017. Journal of Geophysical Research: Space Physics, 2019, 124, 2298-2311. | 2.4 | 67 |
| 33 | Storm time observations of plasmasphere erosion flux in the magnetosphere and ionosphere. Geophysical Research Letters, 2014, 41, 762-768. | 4.0 | 65 |
| 34 | Real-Time Ionospheric Monitoring System Using GPS. Navigation, Journal of the Institute of Navigation, 1992, 39, 191-204. | 2.8 | 64 |
| 35 | Thermospheric poleward wind surge at midlatitudes during great storm intervals. Geophysical Research Letters, 2015, 42, 5132-5140. | 4.0 | 59 |
| 36 | Ground and Space-Based Measurement of Rocket Engine Burns in the Ionosphere. IEEE Transactions on Plasma Science, 2012, 40, 1267-1286. | 1.3 | 58 |

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|---|---|---|---|
| 37 | Merging of Storm Time Midlatitude Traveling Ionospheric Disturbances and Equatorial Plasma Bubbles. Space Weather, 2019, 17, 285-298. | 3.7 | 58 |
| 38 | Observations of ionâ€neutral coupling associated with strong electrodynamic disturbances during the 2015 St. Patrick's Day storm. Journal of Geophysical Research: Space Physics, 2017, 122, 1314-1337. | 2.4 | 57 |
| 39 | Large magnetic stormâ€induced nighttime ionospheric flows at midlatitudes and their impacts on GPSâ€based navigation systems. Journal of Geophysical Research, 2008, 113, . | 3.3 | 53 |
| 40 | GPS phase scintillation and proxy index at high latitudes during a moderate geomagnetic storm. Annales Geophysicae, 2013, 31, 805-816. | 1.6 | 53 |
| 41 | Multiâ€instrument observations of SED during 24â€“25 October 2011 storm: Implications for SED formation processes. Journal of Geophysical Research: Space Physics, 2013, 118, 7798-7809. | 2.4 | 53 |
| 42 | The temporal evolution of 3â€m striations in the modified ionosphere. Journal of Geophysical Research, 1985, 90, 2807-2818. | 3.3 | 52 |
| 43 | Longitude sector comparisons of storm enhanced density. Geophysical Research Letters, 2007, 34, . | 4.0 | 52 |
| 44 | Largeâ€scale observations of a subauroral polarization stream by midlatitude SuperDARN radars: Instantaneous longitudinal velocity variations. Journal of Geophysical Research, 2012, 117, . | 3.3 | 51 |
| 45 | Ionospheric data assimilation and forecasting during storms. Journal of Geophysical Research: Space Physics, 2016, 121, 764-778. | 2.4 | 51 |
| 46 | Subauroral and Polar Traveling Ionospheric Disturbances During the 7â€“9 September 2017 Storms. Space Weather, 2019, 17, 1748-1764. | 3.7 | 50 |
| 47 | Conjugate localized enhancement of total electron content at low latitudes in the American sector. Journal of Atmospheric and Solar-Terrestrial Physics, 2007, 69, 1241-1252. | 1.6 | 48 |
| 48 | Ionospheric Storms at Mid-Latitude: A Short Review. Geophysical Monograph Series, 0, , 9-24. | 0.1 | 48 |
| 49 | EOF analysis and modeling of GPS TEC climatology over North America. Journal of Geophysical Research: Space Physics, 2015, 120, 3118-3129. | 2.4 | 47 |
| 50 | Mobile crowd sensing in space weather monitoring: the mahali project. , 2014, 52, 22-28. | | 43 |
| 51 | Significant Ionospheric Hole and Equatorial Plasma Bubbles After the 2022 Tonga Volcano Eruption. Space Weather, 2022, 20, . | 3.7 | 43 |
| 52 | Ionospheric response to the 2009 sudden stratospheric warming over the equatorial, low, and middle latitudes in the South American sector. Journal of Geophysical Research: Space Physics, 2015, 120, 7889-7902. | 2.4 | 42 |
| 53 | Identification of Auroral Zone Activity Driving Largeâ€Scale Traveling Ionospheric Disturbances. Journal of Geophysical Research: Space Physics, 2019, 124, 700-714. | 2.4 | 42 |
| 54 | Pronounced Suppression and Xâ€Pattern Merging of Equatorial Ionization Anomalies After the 2022 Tonga Volcano Eruption. Journal of Geophysical Research: Space Physics, 2022, 127, . | 2.4 | 42 |

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|---|---|---|---|
| 55 | The geomagnetic storm time response of GPS total electron content in the North American sector. Journal of Geophysical Research: Space Physics, 2016, 121, 1744-1759. | 2.4 | 41 |
| 56 | Variations in Thermosphere Composition and Ionosphere Total Electron Content Under â€œGeomagnetically Quietâ€•Conditions at Solarâ€Minimum. Geophysical Research Letters, 2021, 48, e2021GL093300. | 4.0 | 40 |
| 57 | Traveling Ionospheric Disturbances and Ionospheric Perturbations Associated With Solar Flares in September 2017. Journal of Geophysical Research: Space Physics, 2019, 124, 5894-5917. | 2.4 | 36 |
| 58 | Comparison of GOLD Nighttime Measurements With Total Electron Content: Preliminary Results. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027767. | 2.4 | 35 |
| 59 | The ionospheric impact of the October 2003 storm event on Wide Area Augmentation System. GPS Solutions, 2005, 9, 41-50. | 4.3 | 34 |
| 60 | TID Observations and Source Analysis During the 2017 Memorial Day Weekend Geomagnetic Storm Over North America. Journal of Geophysical Research: Space Physics, 2018, 123, 8749-8765. | 2.4 | 34 |
| 61 | Coordinated Groundâ€Based and Spaceâ€Based Observations of Equatorial Plasma Bubbles. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027569. | 2.4 | 34 |
| 62 | SAMI3â€RCM simulation of the 17 March 2015 geomagnetic storm. Journal of Geophysical Research: Space Physics, 2017, 122, 1246-1257. | 2.4 | 33 |
| 63 | Ionospheric Response to the Solar Eclipse of 21 August 2017 in Millstone Hill (42N) Observations. Geophysical Research Letters, 2018, 45, 4601-4609. | 4.0 | 33 |
| 64 | Manâ€made space weather. Space Weather, 2008, 6, . | 3.7 | 32 |
| 65 | Large variations in the thermosphere and ionosphere during minor geomagnetic disturbances in April 2002 and their association with IMFBy. Journal of Geophysical Research, 2006, 111, . | 3.3 | 31 |
| 66 | Monitoring storm-enhanced density using IGS reference station data. Journal of Geodesy, 2009, 83, 345-351. | 3.6 | 30 |
| 67 | GPS TEC observations of dynamics of the mid-latitude trough during substorms. Geophysical Research Letters, 2011, 38, n/a-n/a. | 4.0 | 30 |
| 68 | Ionospheric observations during the geomagnetic storm events on 24â€“27 July 2004: Longâ€duration positive storm effects. Journal of Geophysical Research, 2012, 117, . | 3.3 | 30 |
| 69 | Dayside midlatitude ionospheric response to storm time electric fields: A case study for 7 September 2002. Journal of Geophysical Research, 2011, 116, n/a-n/a. | 3.3 | 29 |
| 70 | Longitudinally Dependent Lowâ€Latitude Ionospheric Disturbances Linked to the Antarctic Sudden Stratospheric Warming of September 2019. Journal of Geophysical Research: Space Physics, 2020, 125, e2020JA028199. | 2.4 | 28 |
| 71 | Solar flare effects in the Earthâ€™s magnetosphere. Nature Physics, 2021, 17, 807-812. | 16.7 | 27 |
| 72 | The Mid-Latitude Trough-Revisited. Geophysical Monograph Series, 0, , 25-33. | 0.1 | 26 |

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|---|---|---|---|
| 73 | Polar cap patches and the tongue of ionization: A survey of GPS TEC maps from 2009 to 2015. Geophysical Research Letters, 2016, 43, 2422-2428. | 4.0 | 26 |
| 74 | Redistribution of the stormtime ionosphere and the formation of a plasmaspheric bulge. Geophysical Monograph Series, 2005, , 277-289. | 0.1 | 25 |
| 75 | Deep Ionospheric Hole Created by Sudden Stratospheric Warming in the Nighttime Ionosphere. Journal of Geophysical Research: Space Physics, 2018, 123, 7621-7633. | 2.4 | 25 |
| 76 | Did Tsunamiâ€Launched Gravity Waves Trigger Ionospheric Turbulence over Arecibo?. Journal of Geophysical Research, 2008, 113, . | 3.3 | 24 |
| 77 | Irregularities within Subauroral Polarization Stream-Related Troughs and GPS Radio Interference at Midlatitudes. Geophysical Monograph Series, 0, , 291-295. | 0.1 | 24 |
| 78 | The night when the auroral and equatorial ionospheres converged. Journal of Geophysical Research: Space Physics, 2015, 120, 8085-8095. | 2.4 | 24 |
| 79 | Salient Midlatitude Ionosphereâ€Thermosphere Disturbances Associated With SAPS During a Minor but Geoâ€Effective Storm at Deep Solar Minimum. Journal of Geophysical Research: Space Physics, 2021, 126, e2021JA029509. | 2.4 | 24 |
| 80 | Performance Evaluation of the Wide Area Augmentation System for Ionospheric Storm Events. The Journal of Global Positioning Systems, 2004, 3, 251-258. | 1.6 | 24 |
| 81 | Ionospheric response to CIRâ€induced recurrent geomagnetic activity during the declining phase of solar cycle 23. Journal of Geophysical Research: Space Physics, 2015, 120, 1394-1418. | 2.4 | 23 |
| 82 | Gaussian Markov Random Field Priors in Ionospheric 3-D Multi-Instrument Tomography. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 7009-7021. | 6.3 | 23 |
| 83 | Decameter structure in heaterâ€induced airglow at the High frequency Active Auroral Research Program facility. Journal of Geophysical Research, 2010, 115, . | 3.3 | 22 |
| 84 | Ionospheric symmetry caused by geomagnetic declination over North America. Geophysical Research Letters, 2013, 40, 5350-5354. | 4.0 | 22 |
| 85 | Validation of Ionospheric Specifications During Geomagnetic Storms: TEC and foF2 During the 2013 March Storm Event. Space Weather, 2018, 16, 1686-1701. | 3.7 | 22 |
| 86 | Electrodynamics of the highâ€latitude trough: Its relationship with convection flows and fieldâ€aligned currents. Journal of Geophysical Research: Space Physics, 2013, 118, 2565-2572. | 2.4 | 21 |
| 87 | Daytime midlatitude plasma depletions observed by Swarm: Topside signatures of the rocket exhaust. Geophysical Research Letters, 2016, 43, 1802-1809. | 4.0 | 21 |
| 88 | Ionospheric F-region observations over American sector during an intense space weather event using multi-instruments. Journal of Atmospheric and Solar-Terrestrial Physics, 2017, 156, 1-14. | 1.6 | 21 |
| 89 | Leveraging Geodetic GPS Receivers for Ionospheric Scintillation Science. Radio Science, 2020, 55, e2020RS007131. | 1.6 | 21 |
| 90 | Ionospheric longitudinal variations at midlatitudes: Incoherent scatter radar observation at Millstone Hill. Science China Technological Sciences, 2012, 55, 1153-1160. | 4.0 | 20 |

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|---|---|---|---|
| 91 | Ionospheric-Magnetospheric-Heliospheric Coupling: Storm-Time Thermal Plasma Redistribution. Geophysical Monograph Series, 0, , 121-134. | 0.1 | 20 |
| 92 | Using the Murchison Widefield Array to observe midlatitude space weather. Radio Science, 2012, 47, . | 1.6 | 19 |
| 93 | PFISR observation of intense ion upflow fluxes associated with an SED during the 1 June 2013 geomagnetic storm. Journal of Geophysical Research: Space Physics, 2017, 122, 2589-2604. | 2.4 | 19 |
| 94 | Effects of the September 2005 Solar Flares and Solar Proton Events on the Middle Atmosphere in WACCM. Journal of Geophysical Research: Space Physics, 2018, 123, 5747-5763. | 2.4 | 19 |
| 95 | A case study of the large-scale traveling ionospheric disturbances in the eastern Asian sector during the 2015 St. Patrick's Day geomagnetic storm. Annales Geophysicae, 2019, 37, 673-687. | 1.6 | 19 |
| 96 | Spacecraft Radio Frequency Fluctuations in the Solar Corona: A MESSENGERâ€“HELIOS Composite Study. Astrophysical Journal, 2019, 871, 202. | 4.5 | 19 |
| 97 | Evolution of Midâ€latitude Density Irregularities and Scintillation in North America During the 7â€“8 September 2017 Storm. Journal of Geophysical Research: Space Physics, 2021, 126, e2021JA029192. | 2.4 | 19 |
| 98 | Disturbed O/N<sub>2</sub>Ratios and their Transport to Middle and Low Latitudes. Geophysical Monograph Series, 0, , 221-234. | 0.1 | 18 |
| 99 | GPS Signal Corruption by the Discrete Aurora: Precise Measurements From the Mahali Experiment. Geophysical Research Letters, 2017, 44, 9539-9546. | 4.0 | 18 |
| 100 | Electrified Postsunrise Ionospheric Perturbations at Millstone Hill. Geophysical Research Letters, 2021, 48, e2021GL095151. | 4.0 | 18 |
| 101 | CEDARâ€GEM Challenge for Systematic Assessment of Ionosphere/Thermosphere Models in Predicting TEC During the 2006 December Storm Event. Space Weather, 2017, 15, 1238-1256. | 3.7 | 17 |
| 102 | Extreme polar cap density enhancements along magnetic field lines during an intense geomagnetic storm. Journal of Geophysical Research, 2007, 112, n/a-n/a. | 3.3 | 16 |
| 103 | Fieldâ€Aligned GPS Scintillation: Multisensor Data Fusion. Journal of Geophysical Research: Space Physics, 2018, 123, 974-992. | 2.4 | 16 |
| 104 | A New Empirical Model of the Subauroral Polarization Stream. Journal of Geophysical Research: Space Physics, 2018, 123, 7342-7357. | 2.4 | 16 |
| 105 | Summerâ€winter hemispheric asymmetry of the sudden increase in ionospheric total electron content and of the O/N<sub>2</sub> ratio: Solar activity dependence. Journal of Geophysical Research, 2007, 112, . | 3.3 | 15 |
| 106 | An Ionosphere Specification Technique Based on Data Ingestion Algorithm and Empirical Orthogonal Function Analysis Method. Space Weather, 2018, 16, 1410-1423. | 3.7 | 15 |
| 107 | Early Morning Equatorial Ionization Anomaly From GOLD Observations. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027487. | 2.4 | 15 |
| 108 | 3â€D Regional Ionosphere Imaging and SED Reconstruction With a New TECâ€Based Ionospheric Data Assimilation System (TIDAS). Space Weather, 2022, 20, . | 3.7 | 15 |

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|---|---|---|---|
| 109 | The International Community Coordinated Modeling Center Space Weather Modeling Capabilities Assessment: Overview of Ionosphere/Thermosphere Activities. Space Weather, 2019, 17, 527-538. | 3.7 | 14 |
| 110 | Anomalous Behavior of the Equatorial Ionization Anomaly During the 2 July 2019 Solar Eclipse. Journal of Geophysical Research: Space Physics, 2020, 125, e2020JA027909. | 2.4 | 13 |
| 111 | First Observations of Large Scale Traveling Ionospheric Disturbances Using Automated Amateur Radio Receiving Networks. Geophysical Research Letters, 2022, 49, . | 4.0 | 13 |
| 112 | Multiâ€instrument, highâ€resolution imaging of polar cap patch transportation. Radio Science, 2015, 50, 904-915. | 1.6 | 12 |
| 113 | Coordinated Groundâ€Based and Spaceâ€Borne Observations of Ionospheric Response to the Annular Solar Eclipse on 26 December 2019. Journal of Geophysical Research: Space Physics, 2020, 125, e2020JA028296. | 2.4 | 12 |
| 114 | A Statistical Study of the Subauroral Polarization Stream Over North American Sector Using the Millstone Hill Incoherent Scatter Radar 1979â€“2019 Measurements. Journal of Geophysical Research: Space Physics, 2020, 125, e2020JA028584. | 2.4 | 12 |
| 115 | Conjugate Ionospheric Perturbation During the 2017 Solar Eclipse. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA028531. | 2.4 | 12 |
| 116 | Sequential Observations of Flux Transfer Events, Polewardâ€Moving Auroral Forms, and Polar Cap Patches. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027674. | 2.4 | 12 |
| 117 | Evaluation of recent atmospheric density models. Advances in Space Research, 1986, 6, 157-165. | 2.6 | 11 |
| 118 | Studies of storm-enhanced density impact on DGPS using IGS reference station data. Journal of Geodesy, 2009, 83, 235-240. | 3.6 | 11 |
| 119 | Low- and Middle-Latitude Ionospheric Dynamics Associated with Magnetic Storms. Geophysical Monograph Series, 0, , 51-61. | 0.1 | 11 |
| 120 | Radio Occultation Observations of the Solar Corona Over 1.60â€“1.86ÂR<sub>âŠ™</sub>: Faraday Rotation and Frequency Shift Analysis. Journal of Geophysical Research: Space Physics, 2019, 124, 7761-7777. | 2.4 | 11 |
| 121 | Coronal Electron Density Fluctuations Inferred from Akatsuki Spacecraft Radio Observations. Solar Physics, 2020, 295, 1. | 2.5 | 11 |
| 122 | Influences of the dayâ€night differences of ionospheric variability on the estimation of GPS differential code bias. Radio Science, 2015, 50, 339-353. | 1.6 | 10 |
| 123 | Understanding Inter-Hemispheric Traveling Ionospheric Disturbances and Their Mechanisms. Remote Sensing, 2020, 12, 228. | 4.0 | 10 |
| 124 | Temporal Evolution of Lowâ€Latitude Plasma Blobs Identified From Multiple Measurements: ICON, GOLD, and Madrigal TEC. Journal of Geophysical Research: Space Physics, 2022, 127, . | 2.4 | 10 |
| 125 | Operational impacts of space weather. Geophysical Research Letters, 2003, 30, . | 4.0 | 9 |
| 126 | Detection of traveling ionospheric disturbances by mediumâ€frequency Doppler sounding using AM radio transmissions. Radio Science, 2015, 50, 249-263. | 1.6 | 9 |

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|---|---|---|---|
| 127 | Hemispherical Shifted Symmetry in Polar Cap Patch Occurrence: A Survey of GPS TEC Maps From 2015â€“2018. Geophysical Research Letters, 2019, 46, 10726-10734. | 4.0 | 9 |
| 128 | Ionospheric and tropospheric path delay obtained from GPS integrated phase, incoherent scatter and refractometer data and from IRI-86. Advances in Space Research, 1990, 10, 105-108. | 2.6 | 8 |
| 129 | Faraday rotation fluctuations of MESSENGER radio signals through the equatorial lower corona near solar minimum. Space Weather, 2017, 15, 310-324. | 3.7 | 8 |
| 130 | Multi-instrument observations of SCIPS: 1. ISR and GPS TEC results. Journal of Atmospheric and Solar-Terrestrial Physics, 2021, 213, 105515. | 1.6 | 8 |
| 131 | A New Model for Ionospheric Total Electron Content: The Impact of Solar Flux Proxies and Indices. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA028466. | 2.4 | 8 |
| 132 | Observations of Pole-to-Pole, Stratosphere-to-Ionosphere Connection. Frontiers in Astronomy and Space Sciences, 2022, 8, . | 2.8 | 8 |
| 133 | Thermospheric Dynamics at Low and Mid-Latitudes During Magnetic Storm Activity. Geophysical Monograph Series, 0, , 201-219. | 0.1 | 7 |
| 134 | Source Region and Propagation of Dayside Largeâ€Scale Traveling Ionospheric Disturbances. Geophysical Research Letters, 2020, 47, e2020GL089451. | 4.0 | 7 |
| 135 | Geospace Plume and Its Impact on Dayside Magnetopause Reconnection Rate. Journal of Geophysical Research: Space Physics, 2021, 126, e2021JA029117. | 2.4 | 7 |
| 136 | Overview of Midlatitude Ionospheric Storms. Eos, 2007, 88, 358. | 0.1 | 6 |
| 137 | Impact of September 2019 Antarctic Sudden Stratospheric Warming on Midâ€Latitude Ionosphere and Thermosphere Over North America and Europe. Geophysical Research Letters, 2021, 48, e2021GL094517. | 4.0 | 6 |
| 138 | Multiâ€Scale Density Structures in the Plasmaspheric Plume During a Geomagnetic Storm. Journal of Geophysical Research: Space Physics, 2022, 127, . | 2.4 | 6 |
| 139 | GNSSâ€ISR data fusion: General framework with application to the highâ€latitude ionosphere. Radio Science, 2016, 51, 118-129. | 1.6 | 5 |
| 140 | Direct Observations of a Polar Cap Patch Formation Associated With Dayside Reconnection Driven Fast Flow. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027745. | 2.4 | 5 |
| 141 | Cusp Dynamics and Polar Cap Patch Formation Associated With a Small IMF Southward Turning. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA029090. | 2.4 | 4 |
| 142 | An Examination of Magnetosphereâ€Ionosphere Influences During a SAPS Event. Geophysical Research Letters, 2021, 48, e2021GL095751. | 4.0 | 4 |
| 143 | Extreme Lowâ€Latitude Total Electron Content Enhancement and Global Positioning System Scintillation at Dawn. Space Weather, 2021, 19, e2021SW002740. | 3.7 | 4 |
| 144 | Direct Connection Between Auroral Oval Streamers/Flow Channels and Equatorward Traveling Ionospheric Disturbances. Frontiers in Astronomy and Space Sciences, 2021, 8, . | 2.8 | 4 |

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|---|---|---|---|
| 145 | Coordinated Observations of Rocket Exhaust Depletion: GOLD, Madrigal TEC, and Multiple Lowâ€Earthâ€Orbit Satellites. Journal of Geophysical Research: Space Physics, 2022, 127, . | 2.4 | 4 |
| 146 | Characterization of system calibration parameters for high gain dual polarization satellite beacon diagnostics of ionospheric variations. Radio Science, 2011, 46, . | 1.6 | 3 |
| 147 | Intercepted Signals for Ionospheric Science. , 2011, , . | | 3 |
| 148 | Diurnal Variation of TEC and S 4 Index During the Period of Low Geomagnetic Activity at Ile-Ife, Nigeria. Arabian Journal for Science and Engineering, 2013, 38, 1807-1813. | 1.1 | 3 |
| 149 | Plasma density gradients at the edge of polar ionospheric holes: the absence of phase scintillation. Annales Geophysicae, 2020, 38, 575-590. | 1.6 | 3 |
| 150 | Evaluation of thermospheric models and the precipitation index for satellite drag. Advances in Space Research, 1990, 10, 303-309. | 2.6 | 2 |
| 151 | Intercepted signals for ionospheric science. Radio Science, 2013, 48, 248-264. | 1.6 | 2 |
| 152 | Reply to comment by Kil et al. on â€œThe night when the auroral and equatorial ionospheres convergedâ€• Journal of Geophysical Research: Space Physics, 2016, 121, 10,608-10,613. | 2.4 | 2 |
| 153 | Dayside Polar Cap Density Enhancements Formed During Substorms. Journal of Geophysical Research: Space Physics, 2020, 125, e2020JA028101. | 2.4 | 2 |
| 154 | GPS Data Processing for Scientific Studies of the Earthâ€™s Atmosphere and Near-Space Environment. , 2016, , 1-12. | | 2 |
| 155 | The GPS ionospheric working group. GPS Solutions, 2004, 8, 184-188. | 4.3 | 1 |
| 156 | Assimilation of Observations with Models to Better Understand Severe Ionospheric Weather at Mid-Latitudes. Geophysical Monograph Series, 0, , 35-49. | 0.1 | 1 |
| 157 | Potential for issuing ionospheric warnings to Canadian users of marine DGPS. Space Weather, 2008, 6, . | 3.7 | 1 |
| 158 | Polar Cap Patch Prediction in the Expanding Contracting Polar Cap Paradigm. Space Weather, 2019, 17, 1570-1583. | 3.7 | 1 |
| 159 | WHY SOUTH AMERICA IS A GREAT PLACE TO DO SPACE PHYSICS: SPATIAL AND TEMPORAL EXTENT OF IONOSPHERIC ANOMALIES DURING SUDDEN STRATOSPHERIC WARMINGS. , 2015, , . | | 0 |
| 160 | GPS Data Processing for Scientific Studies of the Earthâ€™s Atmosphere and Near-Space Environment. , 2017, , 805-816. | | 0 |
| 161 | New lightningâ€derived vertical total electron content data provides unique global ionospheric measurements. Space Weather, 0, , . | 3.7 | 0 |