

# Kenneth Dymond

## List of Publications by Year in descending order

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75  
papers

1,926  
citations

471371

17  
h-index

276775

41  
g-index

75  
all docs

75  
docs citations

75  
times ranked

1713  
citing authors

| #  | ARTICLE                                                                                                                                                                                                                                                         | IF  | CITATIONS |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 1  | RENU2 UV PMT Observations of the Cusp. Geophysical Research Letters, 2020, 47, e2019GL082314.                                                                                                                                                                   | 1.5 | 2         |
| 2  | Initial Observations by the GOLD Mission. Journal of Geophysical Research: Space Physics, 2020, 125, e2020JA027823.                                                                                                                                             | 0.8 | 80        |
| 3  | A Comparison of Electron Densities Derived by Tomographic Inversion of the 135.6 nm Ionospheric Nightglow Emission to Incoherent Scatter Radar Measurements. Journal of Geophysical Research: Space Physics, 2019, 124, 4585-4596.                              | 0.8 | 7         |
| 4  | Coordinated Ionospheric Reconstruction CubeSat Experiment (CIRCE) mission overview. , 2019, , .                                                                                                                                                                 |     | 6         |
| 5  | Comparison of second and third generation 135.6 nm ionospheric photometers using on-orbit and laboratory results. , 2019, , .                                                                                                                                   |     | 3         |
| 6  | Ultraviolet beam splitter characterization for use in a CubeSat optical system. Journal of Applied Remote Sensing, 2019, 13, 1.                                                                                                                                 | 0.6 | 4         |
| 7  | Evaluating Different Techniques for Constraining Lower Atmospheric Variability in an Upper Atmosphere General Circulation Model: A Case Study During the 2010 Sudden Stratospheric Warming. Journal of Advances in Modeling Earth Systems, 2018, 10, 3076-3102. | 1.3 | 11        |
| 8  | Evaluation of UV optics for Triple Tiny Ionospheric Photometers on CubeSat missions. , 2018, , .                                                                                                                                                                |     | 3         |
| 9  | The Special Sensor Ultraviolet Limb Imager instruments. Journal of Geophysical Research: Space Physics, 2017, 122, 2674-2685.                                                                                                                                   | 0.8 | 9         |
| 10 | Ionospheric and thermospheric UV tomography: 1. Image space reconstruction algorithms. Radio Science, 2017, 52, 338-356.                                                                                                                                        | 0.8 | 12        |
| 11 | Evaluation of the performance of ionospheric models at solar maximum using COSMIC slant TEC measurements. Radio Science, 2017, 52, 378-388.                                                                                                                     | 0.8 | 2         |
| 12 | Ionospheric and thermospheric UV tomography: 3. A multisensor technique for creating full-orbit reconstructions of atmospheric UV emission. Radio Science, 2017, 52, 896-916.                                                                                   | 0.8 | 3         |
| 13 | The Global-Scale Observations of the Limb and Disk (GOLD) Mission. Space Science Reviews, 2017, 212, 383-408.                                                                                                                                                   | 3.7 | 105       |
| 14 | Ionospheric and thermospheric UV tomography: 2. Comparison with incoherent scatter radar measurements. Radio Science, 2017, 52, 357-366.                                                                                                                        | 0.8 | 8         |
| 15 | Low-latitude ionospheric research using the CIRCE Mission: instrumentation overview. , 2017, , .                                                                                                                                                                |     | 3         |
| 16 | The Tiny Ionospheric Photometer (TIP) on the Constellation Observing System for Meteorology, Ionosphere, and Climate (COSMIC/FORMOSAT-3). Journal of Geophysical Research: Space Physics, 2016, 121, 10,614-10,622.                                             | 0.8 | 8         |
| 17 | Stellar calibration of the Special Sensor Ultraviolet Limb Imager (SSULI) on the DMSP spacecraft. Proceedings of SPIE, 2015, , .                                                                                                                                | 0.8 | 3         |
| 18 | Simulations of the effects of vertical transport on the thermosphere and ionosphere using two coupled models. Journal of Geophysical Research: Space Physics, 2014, 119, 1172-1185.                                                                             | 0.8 | 39        |

| #  | ARTICLE                                                                                                                                                                                                                        | IF  | CITATIONS |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 19 | New Systems for Space Based Monitoring of Ionospheric Irregularities and Radio Wave Scintillations. Geophysical Monograph Series, 2013, , 431-440.                                                                             | 0.1 | 7         |
| 20 | A new technique for spectral analysis of ionospheric TEC fluctuations observed with the Very Large Array VHF system: From QP echoes to MSTIDs. Radio Science, 2012, 47, .                                                      | 0.8 | 24        |
| 21 | High-precision measurements of ionospheric TEC gradients with the Very Large Array VHF system. Radio Science, 2012, 47, .                                                                                                      | 0.8 | 23        |
| 22 | Global observations of L band scintillation at solar minimum made by COSMIC. Radio Science, 2012, 47, .                                                                                                                        | 0.8 | 37        |
| 23 | A medium-scale traveling ionospheric disturbance observed from the ground and from space. Radio Science, 2011, 46, .                                                                                                           | 0.8 | 14        |
| 24 | A study of the strong linear relationship between the equatorial ionization anomaly and the prereversal $E$ - $B$ drift velocity at solar minimum. Radio Science, 2011, 46, .                                                  | 0.8 | 14        |
| 25 | Horizontal Ionospheric Electron Density Gradients Observed by FORMOSAT-3/COSMIC TIP: Spatial Distributions and Effects on VLF Wave Propagation at Mid-Latitudes. Terrestrial, Atmospheric and Oceanic Sciences, 2009, 20, 251. | 0.3 | 2         |
| 26 | Tomographic Reconstruction of the Low-Latitude Nighttime Electron Density Using FORMOSAT-3/COSMIC Radio Occultation and UV Photometer Data. Terrestrial, Atmospheric and Oceanic Sciences, 2009, 20, 215.                      | 0.3 | 10        |
| 27 | Ionospheric Electron Density Concurrently Derived by TIP and GOX of FORMOSAT-3/COSMIC. Terrestrial, Atmospheric and Oceanic Sciences, 2009, 20, 207.                                                                           | 0.3 | 7         |
| 28 | Observations of the Ionosphere Using the Tiny Ionospheric Photometer. Terrestrial, Atmospheric and Oceanic Sciences, 2009, 20, 227.                                                                                            | 0.3 | 12        |
| 29 | Simultaneous radio interferometer and optical observations of ionospheric structure at the Very Large Array. Radio Science, 2009, 44, .                                                                                        | 0.8 | 11        |
| 30 | Remote sensing of nighttime $F$ region peak height and peak density using ultraviolet line ratios. Radio Science, 2009, 44, .                                                                                                  | 0.8 | 8         |
| 31 | Tiny Ionospheric Photometers on FORMOSAT-3/COSMIC: on-orbit performance. , 2009, , .                                                                                                                                           |     | 8         |
| 32 | On-orbit calibration of the Tiny Ionospheric Photometer on the COSMIC/FORMOSAT-3 satellites. , 2009, , .                                                                                                                       |     | 6         |
| 33 | Hemispheric asymmetries in the longitudinal structure of the low-latitude nighttime ionosphere. Journal of Geophysical Research, 2008, 113, .                                                                                  | 3.3 | 25        |
| 34 | The COSMIC/FORMOSAT-3 Mission: Early Results. Bulletin of the American Meteorological Society, 2008, 89, 313-334.                                                                                                              | 1.7 | 783       |
| 35 | Application of SSULI ground calibration methods to retrieval of spectral emissions on flight instruments. Proceedings of SPIE, 2007, , .                                                                                       | 0.8 | 1         |
| 36 | Observations of middle ultraviolet emissions in the middle and lower thermosphere: $O_2$ , $O$ , and $Mg^{+}$ . Journal of Geophysical Research, 2007, 112, .                                                                  | 3.3 | 5         |

| #  | ARTICLE                                                                                                                                                                                                                                           | IF  | CITATIONS |
|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 37 | Validation of nighttime UV measurements of the F-region ionosphere made by the low resolution airglow and aurora spectrograph (LORAAS) instrument. Radio Science, 2006, 41, n/a-n/a.                                                              | 0.8 | 1         |
| 38 | Simultaneous inversion of total electron content and UV radiance data to produce F-region electron densities. Radio Science, 2006, 41, n/a-n/a.                                                                                                   | 0.8 | 1         |
| 39 | Preparing for COSMIC: Inversion and Analysis of Ionospheric Data Products. , 2006, , 137-146.                                                                                                                                                     |     | 40        |
| 40 | The optomechanical design and operation of the ionospheric mapping and geocoronal experiment. , 2005, , .                                                                                                                                         |     | 3         |
| 41 | Ionospheric response to the solar flare of 14 July 2000. Radio Science, 2004, 39, n/a-n/a.                                                                                                                                                        | 0.8 | 13        |
| 42 | Middle and upper thermospheric odd nitrogen: 2. Measurements of nitric oxide from Ionospheric Spectroscopy and Atmospheric Chemistry (ISAAC) satellite observations of NO $\Gamma^3$ band emission. Journal of Geophysical Research, 2004, 109, . | 3.3 | 14        |
| 43 | Comparison of ionospheric observations from UV limb scans and radar altimetry. Radio Science, 2004, 39, n/a-n/a.                                                                                                                                  | 0.8 | 2         |
| 44 | Oxygen aurora during the recovery phase of a major geomagnetic storm. Journal of Geophysical Research, 2004, 109, .                                                                                                                               | 3.3 | 6         |
| 45 | The tiny ionospheric photometer instrument design and operation. , 2004, 5660, 259.                                                                                                                                                               |     | 5         |
| 46 | Middle ultraviolet emission from ionized iron. Geophysical Research Letters, 2003, 30, 3-1-3-4.                                                                                                                                                   | 1.5 | 67        |
| 47 | Quenching rate coefficients for O+(2P) derived from middle ultraviolet airglow. Journal of Geophysical Research, 2003, 108, .                                                                                                                     | 3.3 | 22        |
| 48 | <title>Volumetric imaging system for the ionosphere (VISION)</title>. , 2002, , .                                                                                                                                                                 |     | 0         |
| 49 | <title>On-orbit characterization and performance of the HIRAAS instruments aboard ARGOS: LORAAS sensor performance</title>. , 2002, , .                                                                                                           |     | 5         |
| 50 | <title>Experiment for studying spatial and temporal behavior of the ionosphere</title>. , 2002, 4485, 266.                                                                                                                                        |     | 2         |
| 51 | Comparison of O+ density from ARGOS LORAAS data analysis and SAMI2 model results. Geophysical Research Letters, 2002, 29, 6-1.                                                                                                                    | 1.5 | 22        |
| 52 | Ionospheric and dayglow responses to the radiative phase of the Bastille Day flare. Geophysical Research Letters, 2002, 29, 99-1-99-4.                                                                                                            | 1.5 | 50        |
| 53 | Electron densities determined by the HIRAAS Experiment and comparisons with ionosonde measurements. Geophysical Research Letters, 2001, 28, 927-930.                                                                                              | 1.5 | 14        |
| 54 | An algorithm for inferring the two-dimensional structure of the nighttime ionosphere from radiative recombination measurements. Radio Science, 2001, 36, 1241-1254.                                                                               | 0.8 | 14        |

| #  | ARTICLE                                                                                                                                                                                                                                  | IF  | CITATIONS |
|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 55 | A technique for using measured ionospheric density gradients and GPS occultations for inferring the nighttime ionospheric electron density. <i>Radio Science</i> , 2001, 36, 1141-1148.                                                  | 0.8 | 10        |
| 56 | Electron densities determined by inversion of ultraviolet limb profiles. <i>Journal of Geophysical Research</i> , 2001, 106, 30315-30321.                                                                                                | 3.3 | 12        |
| 57 | O <sup>+</sup> , O, and O <sub>2</sub> densities derived from measurements made by the High Resolution Airglow/Aurora Spectrograph (HIRAAS) sounding rocket experiment. <i>Journal of Geophysical Research</i> , 2000, 105, 23025-23033. | 3.3 | 11        |
| 58 | The Tiny Ionospheric Photometer: An Instrument for Measuring Ionospheric Gradients for the COSMIC Constellation. <i>Terrestrial, Atmospheric and Oceanic Sciences</i> , 2000, 11, 273.                                                   | 0.3 | 15        |
| 59 | <title>Update on the calibration and performance of the special sensor ultraviolet limb imagers (SSULI)</title>. , 1999, 3818, 90.                                                                                                       |     | 9         |
| 60 | <title>High-resolution Ionospheric and Thermospheric Spectrograph (HITS) on the Advanced Research and Global Observing Satellite (ARGOS): quick look results</title>. , 1999, , .                                                        |     | 7         |
| 61 | <title>Spectral fitting applications: improved calibration and radiometric accuracy of EUV/FLUV sensors</title>. , 1999, , .                                                                                                             |     | 2         |
| 62 | <title>Ionospheric Spectroscopy and Atmospheric Chemistry (ISAAC) experiment on the Advanced Research and Global Observation Satellite (ARGOS): quick look results</title>. , 1999, , .                                                  |     | 11        |
| 63 | <title>High-Resolution Airglow and Aurora Spectrograph (HIRAAS) sounding rocket experiment</title>. , 1999, 3818, 126.                                                                                                                   |     | 2         |
| 64 | Atomic and molecular emissions in the middle ultraviolet dayglow. <i>Journal of Geophysical Research</i> , 1998, 103, 29215-29228.                                                                                                       | 3.3 | 11        |
| 65 | Two-dimensional mapping of the plasma density in the upper atmosphere with computerized ionospheric tomography (CIT). <i>Physics of Plasmas</i> , 1998, 5, 2010-2021.                                                                    | 0.7 | 54        |
| 66 | Discrete inverse theory for 834-Å... ionospheric remote sensing. <i>Radio Science</i> , 1997, 32, 1973-1984.                                                                                                                             | 0.8 | 19        |
| 67 | An optical remote sensing technique for determining nighttime F-region electron density. <i>Radio Science</i> , 1997, 32, 1985-1996.                                                                                                     | 0.8 | 53        |
| 68 | Investigation of ionospheric O <sup>+</sup> remote sensing using the 834-Å... airglow. <i>Journal of Geophysical Research</i> , 1997, 102, 2441-2456.                                                                                    | 3.3 | 27        |
| 69 | Effect of energetic electron and proton bombardment on the reflectance of silicon-carbide mirrors in the extreme-ultraviolet region. <i>Applied Optics</i> , 1994, 33, 5902.                                                             | 2.1 | 3         |
| 70 | Effect of oxygen atom bombardment on the reflectance of silicon carbide mirrors in the extreme ultraviolet region. <i>Applied Optics</i> , 1993, 32, 1805.                                                                               | 2.1 | 9         |
| 71 | <title>Ultraviolet spectrographs for thermospheric and ionospheric remote sensing</title>. , 1993, 1940, 117.                                                                                                                            |     | 8         |
| 72 | <title>Effect of oxygen atom bombardment on the reflectance of SiC mirrors in the extreme-ultraviolet region</title>. , 1993, , .                                                                                                        |     | 2         |

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|----|--------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 73 | <title>A far and extreme ultraviolet limb imaging spectrograph for DMSP satellites</title>. , 1992, , .                  |      | 17        |
| 74 | The atomic carbon distribution in the coma of comet P/Halley. , 1988, , 380-384.                                         |      | 1         |
| 75 | Rocket ultraviolet spectroscopy of comet Halley and abundance of carbon monoxide and carbon. Nature, 1986, 324, 436-438. | 13.7 | 57        |