

Scott A Budzien

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/940852/publications.pdf>

Version: 2024-02-01

63
papers

732
citations

687363

13
h-index

610901

24
g-index

64
all docs

64
docs citations

64
times ranked

636
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | The Global-Scale Observations of the Limb and Disk (GOLD) Mission. <i>Space Science Reviews</i> , 2017, 212, 383-408. | 8.1 | 105 |
| 2 | Initial Observations by the GOLD Mission. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2020JA027823. | 2.4 | 80 |
| 3 | Middle ultraviolet emission from ionized iron. <i>Geophysical Research Letters</i> , 2003, 30, 3-1-3-4. | 4.0 | 67 |
| 4 | Ionospheric and dayglow responses to the radiative phase of the Bastille Day flare. <i>Geophysical Research Letters</i> , 2002, 29, 99-1-99-4. | 4.0 | 50 |
| 5 | Observations of the far ultraviolet airglow by the Ultraviolet Limb Imaging Experiment on STS-39. <i>Journal of Geophysical Research</i> , 1994, 99, 23275. | 3.3 | 25 |
| 6 | Quenching rate coefficients for O+(2P) derived from middle ultraviolet airglow. <i>Journal of Geophysical Research</i> , 2003, 108, . | 3.3 | 22 |
| 7 | Altitude profiles of lower thermospheric temperature from RAIDS/NIRS and TIMED/SABER remote sensing experiments. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 3740-3746. | 2.4 | 19 |
| 8 | Observations of molecular oxygen Atmospheric band emission in the thermosphere using the near infrared spectrometer on the ISS/RAIDS experiment. <i>Journal of Geophysical Research</i> , 2012, 117, . | 3.3 | 15 |
| 9 | Electron densities determined by the HIRAAS Experiment and comparisons with ionosonde measurements. <i>Geophysical Research Letters</i> , 2001, 28, 927-930. | 4.0 | 14 |
| 10 | Middle and upper thermospheric odd nitrogen: 2. Measurements of nitric oxide from Ionospheric Spectroscopy and Atmospheric Chemistry (ISAAC) satellite observations of NO $\tilde{\nu}_3$ band emission. <i>Journal of Geophysical Research</i> , 2004, 109, . | 3.3 | 14 |
| 11 | A medium-scale traveling ionospheric disturbance observed from the ground and from space. <i>Radio Science</i> , 2011, 46, . | 1.6 | 14 |
| 12 | Ionospheric response to the solar flare of 14 July 2000. <i>Radio Science</i> , 2004, 39, n/a-n/a. | 1.6 | 13 |
| 13 | Measurement and application of the O II 61.7 nm dayglow. <i>Journal of Geophysical Research</i> , 2012, 117, . | 3.3 | 13 |
| 14 | Electron densities determined by inversion of ultraviolet limb profiles. <i>Journal of Geophysical Research</i> , 2001, 106, 30315-30321. | 3.3 | 12 |
| 15 | Observations of the Ionosphere Using the Tiny Ionospheric Photometer. <i>Terrestrial, Atmospheric and Oceanic Sciences</i> , 2009, 20, 227. | 0.6 | 12 |
| 16 | Ionospheric and thermospheric UV tomography: 1. Image space reconstruction algorithms. <i>Radio Science</i> , 2017, 52, 338-356. | 1.6 | 12 |
| 17 | <title>Ionospheric Spectroscopy and Atmospheric Chemistry (ISAAC) experiment on the Advanced Research and Global Observation Satellite (ARGOS): quick look results</title>. , 1999, , . | | 11 |
| 18 | O+, O, and O2 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 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Far ultraviolet equatorial aurora during geomagnetic storms as observed by the Low-Resolution Airglow and Aurora Spectrograph. <i>Journal of Geophysical Research</i> , 2001, 106, 30323-30330. | 3.3 | 11 |
| 20 | The Remote Atmospheric and Ionospheric Detection System experiment on the ISS: mission overview. , 2009, , . | | 11 |
| 21 | Tomographic Reconstruction of the Low-Latitude Nighttime Electron Density Using FORMOSAT-3/COSMIC Radio Occultation and UV Photometer Data. <i>Terrestrial, Atmospheric and Oceanic Sciences</i> , 2009, 20, 215. | 0.6 | 10 |
| 22 | <title>Update on the calibration and performance of the special sensor ultraviolet limb imagers (SSULI)</title>. , 1999, 3818, 90. | | 9 |
| 23 | Remote sensing of neutral temperatures in the Earth's thermosphere using the Lyman- α Hopfield bands of N_2 : Comparisons with satellite drag data. <i>Journal of Geophysical Research</i> , 2012, 117, . | 3.3 | 9 |
| 24 | The Special Sensor Ultraviolet Limb Imager instruments. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 2674-2685. | 2.4 | 9 |
| 25 | Tiny Ionospheric Photometers on FORMOSAT-3/COSMIC: on-orbit performance. , 2009, , . | | 8 |
| 26 | Modeled and observed N_2 Lyman- α Hopfield band emissions: A comparison. <i>Journal of Geophysical Research</i> , 2011, 116, . | 3.3 | 8 |
| 27 | Global-Scale Observations of the Limb and Disk (Gold): New Observing Capabilities for the Ionosphere-Thermosphere. <i>Geophysical Monograph Series</i> , 0, , 319-326. | 0.1 | 8 |
| 28 | Ionospheric and Thermospheric UV tomography: 2. Comparison with incoherent scatter radar measurements. <i>Radio Science</i> , 2017, 52, 357-366. | 1.6 | 8 |
| 29 | <title>High-resolution Ionospheric and Thermospheric Spectrograph (HITS) on the Advanced Research and Global Observing Satellite (ARGOS): quick look results</title>. , 1999, , . | | 7 |
| 30 | Ionospheric Electron Density Concurrently Derived by TIP and GOX of FORMOSAT-3/COSMIC. <i>Terrestrial, Atmospheric and Oceanic Sciences</i> , 2009, 20, 207. | 0.6 | 7 |
| 31 | The Remote Atmospheric and Ionospheric Detection System on the ISS: sensor performance and space weather applications from the extreme to the near ultraviolet. , 2009, , . | | 7 |
| 32 | A Comparison of Electron Densities Derived by Tomographic Inversion of the 135.6-nm Ionospheric Nightglow Emission to Incoherent Scatter Radar Measurements. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 4585-4596. | 2.4 | 7 |
| 33 | Oxygen aurora during the recovery phase of a major geomagnetic storm. <i>Journal of Geophysical Research</i> , 2004, 109, . | 3.3 | 6 |
| 34 | On-orbit calibration of the Tiny Ionospheric Photometer on the COSMIC/FORMOSAT-3 satellites. , 2009, , . | | 6 |
| 35 | Imaging of the Daytime Ionospheric Equatorial Arcs With Extreme and Far Ultraviolet Airglow. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 6074-6086. | 2.4 | 6 |
| 36 | Coordinated Ionospheric Reconstruction CubeSat Experiment (CIRCE) mission overview. , 2019, , . | | 6 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | <title>On-orbit characterization and performance of the HIRAAS instruments aboard ARGOS: LORAAS sensor performance</title>. , 2002, , . | | 5 |
| 38 | The tiny ionospheric photometer instrument design and operation. , 2004, 5660, 259. | | 5 |
| 39 | Observations of middle ultraviolet emissions in the middle and lower thermosphere: NO, O ₂ , O, and Mg ⁺ . Journal of Geophysical Research, 2007, 112, . | 3.3 | 5 |
| 40 | The Remote Atmospheric and Ionospheric Detection System on the ISS: sensor performance and space weather applications from the visible to the near infrared. , 2009, , . | | 5 |
| 41 | The RAIDS experiment on the ISS: on-orbit performance. , 2011, , . | | 5 |
| 42 | <title>Using the unconventional stellar aspect (USA) experiment on ARGOS to determine atmospheric parameters by x-ray occultation</title>. , 2002, 4485, 258. | | 4 |
| 43 | Middle ultraviolet remote sensing of the equatorial thermosphere during a geomagnetic storm. Annales Geophysicae, 2004, 22, 3203-3209. | 1.6 | 4 |
| 44 | Characterization of sensitivity degradation seen from the UV to NIR by RAIDS on the International Space Station. , 2011, , . | | 4 |
| 45 | Evaluation of ionospheric densities using coincident OII 83.4 nm airglow and the Millstone Hill Radar. Journal of Geophysical Research, 2012, 117, . | 3.3 | 4 |
| 46 | Ionospheric imaging using merged ultraviolet airglow and radio occultation data. Proceedings of SPIE, 2014, , . | 0.8 | 4 |
| 47 | Ultraviolet beam splitter characterization for use in a CubeSat optical system. Journal of Applied Remote Sensing, 2019, 13, 1. | 1.3 | 4 |
| 48 | A new technique for remote sensing of O ₂ density from 140 to 180 km. Geophysical Research Letters, 2015, 42, 233-240. | 4.0 | 3 |
| 49 | Ionospheric&thermospheric UV tomography: 3. A multisensor technique for creating full&orbit reconstructions of atmospheric UV emission. Radio Science, 2017, 52, 896-916. | 1.6 | 3 |
| 50 | Comparison of second and third generation 135.6 nm ionospheric photometers using on-orbit and laboratory results. , 2019, , . | | 3 |
| 51 | Low-latitude ionospheric research using the CIRCE Mission: instrumentation overview. , 2017, , . | | 3 |
| 52 | Evaluation of UV optics for Triple Tiny Ionospheric Photometers on CubeSat missions. , 2018, , . | | 3 |
| 53 | <title>Spectral fitting applications: improved calibration and radiometric accuracy of EUV/FUV sensors</title>. , 1999, , . | | 2 |
| 54 | <title>High-Resolution Airglow and Aurora Spectrograph (HIRAAS) sounding rocket experiment</title>. , 1999, 3818, 126. | | 2 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 55 | <title>Experiment for studying spatial and temporal behavior of the ionosphere</title>. , 2002, 4485, 266. | | 2 |
| 56 | High resolution FUV observations of proton aurora. Geophysical Research Letters, 2003, 30, . | 4.0 | 2 |
| 57 | Comparison of ionospheric observations from UV limb scans and radar altimetry. Radio Science, 2004, 39, n/a-n/a. | 1.6 | 2 |
| 58 | Atmospheric Remote Sensing on the International Space Station. Eos, 2010, 91, 381-382. | 0.1 | 2 |
| 59 | Ultraviolet Limb Imaging Experiment. , 1989, 1158, 2. | | 1 |
| 60 | Comparison of Ultraviolet Airglow Derived Density to Satellite Drag Derived Density. , 2002, , . | | 1 |
| 61 | Application of SSULI ground calibration methods to retrieval of spectral emissions on flight instruments. Proceedings of SPIE, 2007, , . | 0.8 | 1 |
| 62 | Triple Magnesium Ionospheric Photometer (Tri-MIP) instrument overview. , 2021, , . | | 1 |
| 63 | <title>Volumetric imaging system for the ionosphere (VISION)</title>. , 2002, , . | | 0 |