

Scott A Budzien

List of Publications by Year in descending order

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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	Triple Magnesium Ionospheric Photometer (Tri-MIP) instrument overview. , 2021, , .		1
2	Initial Observations by the GOLD Mission. Journal of Geophysical Research: Space Physics, 2020, 125, e2020JA027823.	2.4	80
3	Imaging of the Daytime Ionospheric Equatorial Arcs With Extreme and Far Ultraviolet Airglow. Journal of Geophysical Research: Space Physics, 2019, 124, 6074-6086.	2.4	6
4	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.	2.4	7
5	Coordinated Ionospheric Reconstruction CubeSat Experiment (CIRCE) mission overview. , 2019, , .		6
6	Comparison of second and third generation 135.6 nm ionospheric photometers using on-orbit and laboratory results. , 2019, , .		3
7	Ultraviolet beam splitter characterization for use in a CubeSat optical system. Journal of Applied Remote Sensing, 2019, 13, 1.	1.3	4
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.	2.4	9
10	Ionospheric&thermospheric UV tomography: 1. Image space reconstruction algorithms. Radio Science, 2017, 52, 338-356.	1.6	12
11	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
12	The Global-Scale Observations of the Limb and Disk (GOLD) Mission. Space Science Reviews, 2017, 212, 383-408.	8.1	105
13	Ionospheric&thermospheric UV tomography: 2. Comparison with incoherent scatter radar measurements. Radio Science, 2017, 52, 357-366.	1.6	8
14	Low-latitude ionospheric research using the CIRCE Mission: instrumentation overview. , 2017, , .		3
15	A new technique for remote sensing of O2 density from 140 to 180 km. Geophysical Research Letters, 2015, 42, 233-240.	4.0	3
16	Ionospheric imaging using merged ultraviolet airglow and radio occultation data. Proceedings of SPIE, 2014, , .	0.8	4
17	Altitude profiles of lower thermospheric temperature from RAIDS/NIRS and TIMED/SABER remote sensing experiments. Journal of Geophysical Research: Space Physics, 2013, 118, 3740-3746.	2.4	19
18	Remote sensing of neutral temperatures in the Earth's thermosphere using the Lyman- α and Hopfield bands of N_2 : Comparisons with satellite drag data. Journal of Geophysical Research, 2012, 117, .	3.3	9

#	ARTICLE	IF	CITATIONS
19	Measurement and application of the O II 61.7 nm dayglow. Journal of Geophysical Research, 2012, 117, .	3.3	13
20	Observations of molecular oxygen Atmospheric band emission in the thermosphere using the near infrared spectrometer on the ISS/RAIDS experiment. Journal of Geophysical Research, 2012, 117, .	3.3	15
21	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
22	Modeled and observed N ₂ Lyman-β Hopfield band emissions: A comparison. Journal of Geophysical Research, 2011, 116, .	3.3	8
23	A medium-scale traveling ionospheric disturbance observed from the ground and from space. Radio Science, 2011, 46, .	1.6	14
24	Characterization of sensitivity degradation seen from the UV to NIR by RAIDS on the International Space Station. , 2011, , .		4
25	The RAIDS experiment on the ISS: on-orbit performance. , 2011, , .		5
26	Atmospheric Remote Sensing on the International Space Station. Eos, 2010, 91, 381-382.	0.1	2
27	The Remote Atmospheric and Ionospheric Detection System experiment on the ISS: mission overview. , 2009, , .		11
28	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.	0.6	10
29	Ionospheric Electron Density Concurrently Derived by TIP and GOX of FORMOSAT-3/COSMIC. Terrestrial, Atmospheric and Oceanic Sciences, 2009, 20, 207.	0.6	7
30	Observations of the Ionosphere Using the Tiny Ionospheric Photometer. Terrestrial, Atmospheric and Oceanic Sciences, 2009, 20, 227.	0.6	12
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	Tiny Ionospheric Photometers on FORMOSAT-3/COSMIC: on-orbit performance. , 2009, , .		8
33	On-orbit calibration of the Tiny Ionospheric Photometer on the COSMIC/FORMOSAT-3 satellites. , 2009, , .		6
34	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
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: NO, O ₂ , O, and Mg ⁺ . Journal of Geophysical Research, 2007, 112, .	3.3	5

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37	Middle ultraviolet remote sensing of the equatorial thermosphere during a geomagnetic storm. <i>Annales Geophysicae</i> , 2004, 22, 3203-3209.	1.6	4
38	Ionospheric response to the solar flare of 14 July 2000. <i>Radio Science</i> , 2004, 39, n/a-n/a.	1.6	13
39	Middle and upper thermospheric odd nitrogen: 2. Measurements of nitric oxide from Ionospheric Spectroscopy and Atmospheric Chemistry (ISAAC) satellite observations of NO I ³ band emission. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	14
40	Comparison of ionospheric observations from UV limb scans and radar altimetry. <i>Radio Science</i> , 2004, 39, n/a-n/a.	1.6	2
41	Oxygen aurora during the recovery phase of a major geomagnetic storm. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	6
42	The tiny ionospheric photometer instrument design and operation. , 2004, 5660, 259.		5
43	Middle ultraviolet emission from ionized iron. <i>Geophysical Research Letters</i> , 2003, 30, 3-1-3-4.	4.0	67
44	Quenching rate coefficients for O+(2P) derived from middle ultraviolet airglow. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	22
45	High resolution FUV observations of proton aurora. <i>Geophysical Research Letters</i> , 2003, 30, .	4.0	2
46	<title>Using the unconventional stellar aspect (USA) experiment on ARGOS to determine atmospheric parameters by x-ray occultation</title>. , 2002, 4485, 258.		4
47	<title>Volumetric imaging system for the ionosphere (VISION)</title>. , 2002, , .		0
48	<title>On-orbit characterization and performance of the HIRAAS instruments aboard ARGOS: LORAAS sensor performance</title>. , 2002, , .		5
49	<title>Experiment for studying spatial and temporal behavior of the ionosphere</title>. , 2002, 4485, 266.		2
50	Comparison of Ultraviolet Airglow Derived Density to Satellite Drag Derived Density. , 2002, , .		1
51	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
52	Electron densities determined by the HIRAAS Experiment and comparisons with ionosonde measurements. <i>Geophysical Research Letters</i> , 2001, 28, 927-930.	4.0	14
53	Electron densities determined by inversion of ultraviolet limb profiles. <i>Journal of Geophysical Research</i> , 2001, 106, 30315-30321.	3.3	12
54	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

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55	O+, O, and O2 densities derived from measurements made by the High Resolution Airglow/Aurora Spectrograph (HIRAAS) sounding rocket experiment. Journal of Geophysical Research, 2000, 105, 23025-23033.	3.3	11
56	<title>Update on the calibration and performance of the special sensor ultraviolet limb imagers (SSULI)</title>. , 1999, 3818, 90.		9
57	<title>High-resolution Ionospheric and Thermospheric Spectrograph (HITS) on the Advanced Research and Global Observing Satellite (ARGOS): quick look results</title>. , 1999, , .		7
58	<title>Spectral fitting applications: improved calibration and radiometric accuracy of EUV/FUV sensors</title>. , 1999, , .		2
59	<title>Ionospheric Spectroscopy and Atmospheric Chemistry (ISAAC) experiment on the Advanced Research and Global Observation Satellite (ARGOS): quick look results</title>. , 1999, , .		11
60	<title>High-Resolution Airglow and Aurora Spectrograph (HIRAAS) sounding rocket experiment</title>. , 1999, 3818, 126.		2
61	Observations of the far ultraviolet airglow by the Ultraviolet Limb Imaging Experiment on STS-39. Journal of Geophysical Research, 1994, 99, 23275.	3.3	25
62	Ultraviolet Limb Imaging Experiment. , 1989, 1158, 2.		1
63	Global-Scale Observations of the Limb and Disk (Gold): New Observing Capabilities for the Ionosphere-Thermosphere. Geophysical Monograph Series, 0, , 319-326.	0.1	8