A G Burns

List of Publications by Year
in descending order

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107	4,661	71102	114465
papers	citations	41 h-index	63 g-index

118	118	118	1879
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Comparison of COSMIC ionospheric measurements with groundâ€based observations and model predictions: Preliminary results. Journal of Geophysical Research, 2007, 112, .	3.3	266
2	Geomagnetic storm effects in the low- to middle-latitude upper thermosphere. Journal of Geophysical Research, 1995, 100, 14673.	3.3	158
3	A theoretical study of thermospheric composition perturbations during an impulsive geomagnetic storm. Journal of Geophysical Research, 1991, 96, 14153-14167.	3.3	136
4	Profiles of ionospheric stormâ€enhanced density during the 17 March 2015 great storm. Journal of Geophysical Research: Space Physics, 2016, 121, 727-744.	2.4	121
5	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
6	The Global-Scale Observations of the Limb and Disk (GOLD) Mission. Space Science Reviews, 2017, 212, 383-408.	8.1	105
7	Large enhancements in the O/N2ratio in the evening sector of the winter hemisphere during geomagnetic storms. Journal of Geophysical Research, 1995, 100, 14661.	3.3	101
8	Ionospheric annual asymmetry observed by the COSMIC radio occultation measurements and simulated by the TIEGCM. Journal of Geophysical Research, 2008, 113, .	3.3	99
9	The anomalous ionosphere between solar cycles 23 and 24. Journal of Geophysical Research: Space Physics, 2013, 118, 6524-6535.	2.4	93
10	Behavior of the F₂ peak ionosphere over the South Pacific at dusk during quiet summer conditions from COSMIC data. Journal of Geophysical Research, 2008, 113, .	3.3	92
11	Upper thermosphere winds and temperatures in the geomagnetic polar cap: Solar cycle, geomagnetic activity, and interplanetary magnetic field dependencies. Journal of Geophysical Research, 1995, 100, 21327-21342.	3.3	91
12	Annual/semiannual variation of the ionosphere. Geophysical Research Letters, 2013, 40, 1928-1933.	4.0	90
13	Initial Observations by the GOLD Mission. Journal of Geophysical Research: Space Physics, 2020, 125, e2020JA027823.	2.4	80
14	Ionospheric electric field variations during a geomagnetic storm simulated by a coupled magnetosphere ionosphere thermosphere (CMIT) model. Geophysical Research Letters, 2008, 35, .	4.0	78
15	Wind and temperature effects on thermosphere mass density response to the November 2004 geomagnetic storm. Journal of Geophysical Research, 2010, 115, .	3.3	78
16	Seasonal and solar activity variations of the Weddell Sea Anomaly observed in the TOPEX total electron content measurements. Journal of Geophysical Research, 2009, 114, .	3.3	77
17	Globalâ€Scale Observations of the Equatorial Ionization Anomaly. Geophysical Research Letters, 2019, 46, 9318-9326.	4.0	76
18	Ionospheric response to the initial phase of geomagnetic storms: Common features. Journal of Geophysical Research, 2010, 115, .	3.3	75

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19	Processes responsible for the compositional structure of the thermosphere. Journal of Geophysical Research, 1989, 94, 3670-3686.	3.3	71
20	Relative importance of horizontal and vertical transports to the formation of ionospheric stormâ€enhanced density and polar tongue of ionization. Journal of Geophysical Research: Space Physics, 2016, 121, 8121-8133.	2.4	71
21	Flare location on the solar disk: Modeling the thermosphere and ionosphere response. Journal of Geophysical Research, 2010, 115, .	3.3	70
22	Variability of thermosphere and ionosphere responses to solar flares. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	68
23	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
24	Midlatitude nighttime enhancement in F region electron density from global COSMIC measurements under solar minimum winter condition. Journal of Geophysical Research, 2008, 113, .	3.3	63
25	The Twoâ€Dimensional Evolution of Thermospheric â^O/N₂ Response to Weak Geomagnetic Activity During Solarâ€Minimum Observed by GOLD. Geophysical Research Letters, 2020, 47, e2020GL088838.	4.0	59
26	Solar flare impacts on ionospheric electrodyamics. Geophysical Research Letters, 2012, 39, .	4.0	53
27	Longâ€duration depletion in the topside ionospheric total electron content during the recovery phase of the March 2015 strong storm. Journal of Geophysical Research: Space Physics, 2016, 121, 4733-4747.	2.4	52
28	Global Responses of the Coupled Thermosphere and Ionosphere System to the August 2017 Great American Solar Eclipse. Journal of Geophysical Research: Space Physics, 2018, 123, 7040-7050.	2.4	52
29	Modeling studies of the impact of highâ€speed streams and coâ€rotating interaction regions on the thermosphereâ€ionosphere. Journal of Geophysical Research, 2012, 117, .	3.3	50
30	First Results From the Ionospheric Extension of WACCMâ€X During the Deep Solar Minimum Year of 2008. Journal of Geophysical Research: Space Physics, 2018, 123, 1534-1553.	2.4	50
31	Daytime climatology of ionospheric N_mF₂ and h_mF₂ from COSMIC data. Journal of Geophysical Research, 2012, 117, .	3.3	49
32	Longâ€lasting negative ionospheric storm effects in low and middle latitudes during the recovery phase of the 17 March 2013 geomagnetic storm. Journal of Geophysical Research: Space Physics, 2016, 121, 9234-9249.	2.4	49
33	The equatorial neutral thermospheric response to geomagnetic. Geophysical Research Letters, 1992, 19, 977-980.	4.0	48
34	New aspects of the ionospheric response to the October 2003 superstorms from multipleâ€satellite observations. Journal of Geophysical Research: Space Physics, 2014, 119, 2298-2317.	2.4	48
35	The effect of carbon dioxide cooling on trends in the F2-layer ionosphere. Journal of Atmospheric and Solar-Terrestrial Physics, 2009, 71, 1592-1601.	1.6	47
36	Thermospheric Composition O/N Response to an Altered Meridional Mean Circulation During Sudden Stratospheric Warmings Observed by GOLD. Geophysical Research Letters, 2020, 47, e2019GL086313.	4.0	47

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37	A comparison of the effects of CIRâ€•and CMEâ€•induced geomagnetic activity on thermospheric densities and spacecraft orbits: Case studies. Journal of Geophysical Research, 2012, 117, .	3.3	46
38	Overcooling in the upper thermosphere during the recovery phase of the 2003 October storms. Journal of Geophysical Research, 2012, 117, .	3.3	46
39	Investigation of a Neutral â€œTongueâ€•Observed by GOLD During the Geomagnetic Storm on May 11, 2019. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA028817.	2.4	46
40	Ionospheric Day-to-Day Variability Around the Whole Heliosphere Interval in 2008. Solar Physics, 2011, 274, 457-472.	2.5	45
41	A comparison of the effects of CIRâ€•and CMEâ€•induced geomagnetic activity on thermospheric densities and spacecraft orbits: Statistical studies. Journal of Geophysical Research: Space Physics, 2014, 119, 7928-7939.	2.4	44
42	Numerical simulation of the 6â€‰day wave effects on the ionosphere: Dynamo modulation. Journal of Geophysical Research: Space Physics, 2016, 121, 10,103.	2.4	41
43	Response of the topside and bottomside ionosphere at low and middle latitudes to the October 2003 superstorms. Journal of Geophysical Research: Space Physics, 2015, 120, 6974-6986.	2.4	40
44	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
45	On the solar cycle variation of the winter anomaly. Journal of Geophysical Research: Space Physics, 2014, 119, 4938-4949.	2.4	38
46	Duration of an ionospheric data assimilation initialization of a coupled thermosphere-ionosphere model. Space Weather, 2007, 5, n/a-n/a.	3.7	36
47	Comparison of GOLD Nighttime Measurements With Total Electron Content: Preliminary Results. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027767.	2.4	35
48	Longâ€Lasting Response of the Global Thermosphere and Ionosphere to the 21 August 2017 Solar Eclipse. Journal of Geophysical Research: Space Physics, 2018, 123, 4309-4316.	2.4	34
49	Seasonal and hemispheric variations of the total auroral precipitation energy flux from TIMED/GUVI. Journal of Geophysical Research, 2010, 115, .	3.3	33
50	The summer evening anomaly and conjugate effects. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	33
51	First Zonal Drift Velocity Measurement of Equatorial Plasma Bubbles (EPBs) From a Geostationary Orbit Using GOLD Data. Journal of Geophysical Research: Space Physics, 2020, 125, e2020JA028173.	2.4	33
52	Explaining solar cycle effects on composition as it relates to the winter anomaly. Journal of Geophysical Research: Space Physics, 2015, 120, 5890-5898.	2.4	30
53	Observation of Postsunset OI 135.6Ânm Radiance Enhancement Over South America by the GOLD Mission. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA028108.	2.4	28
54	Driving the TING model with GAIM electron densities: Ionospheric effects on the thermosphere. Journal of Geophysical Research, 2008, 113, .	3.3	27

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55	Carbon dioxide trends in the mesosphere and lower thermosphere. Journal of Geophysical Research: Space Physics, 2017, 122, 4474-4488.	2.4	27
56	Solar flare effects in the Earthâ€™s magnetosphere. Nature Physics, 2021, 17, 807-812.	16.7	27
57	Longitudinal variations of topside ionospheric and plasmaspheric TEC. Journal of Geophysical Research: Space Physics, 2017, 122, 6737-6760.	2.4	26
58	Physical Processes Driving the Response of the F₂ Region Ionosphere to the 21 August 2017 Solar Eclipse at Millstone Hill. Journal of Geophysical Research: Space Physics, 2019, 124, 2978-2991.	2.4	26
59	Globalâ€Scale Observations of the Limb and Disk Mission Implementation: 2. Observations, Data Pipeline, and Level 1 Data Products. Journal of Geophysical Research: Space Physics, 2020, 125, e2020JA027809.	2.4	26
60	Vertical variations in the N2mass mixing ratio during a thermospheric storm that have been simulated using a coupled magnetosphere-ionosphere-thermosphere model. Journal of Geophysical Research, 2006, 111, .	3.3	25
61	The correlation between electron temperature and density in the topside ionosphere during 2006â€“2009. Journal of Geophysical Research: Space Physics, 2015, 120, 10,724.	2.4	25
62	Effects of the equatorial ionosphere anomaly on the interhemispheric circulation in the thermosphere. Journal of Geophysical Research: Space Physics, 2016, 121, 2522-2530.	2.4	25
63	Suppression of the Polar Tongue of Ionization During the 21 August 2017 Solar Eclipse. Geophysical Research Letters, 2018, 45, 2918-2925.	4.0	25
64	Does the Peak Response of the Ionospheric F₂ Region Plasma Lag the Peak of 27â€Day Solar Flux Variation by Multiple Days?. Journal of Geophysical Research: Space Physics, 2018, 123, 7906-7916.	2.4	24
65	New Observations of Largeâ€Scale Waves Coupling With the Ionosphere Made by the GOLD Mission: Quasiâ€16â€Day Wave Signatures in the Fâ€Region OI 135.6â€nm Nightglow During Sudden Stratospheric Warmings. Journal of Geophysical Research: Space Physics, 2020, 125, e2020JA027880.	2.4	24
66	Simulations of the ionospheric annual asymmetry: Sunâ€Earth distance effect. Journal of Geophysical Research: Space Physics, 2017, 122, 6727-6736.	2.4	22
67	Azimuthal averagingâ€“reconstruction filtering techniques for finite-difference general circulation models in spherical geometry. Geoscientific Model Development, 2021, 14, 859-873.	3.6	22
68	A Modeling Study of the Responses of Mesosphere and Lower Thermosphere Winds to Geomagnetic Storms at Middle Latitudes. Journal of Geophysical Research: Space Physics, 2019, 124, 3666-3680.	2.4	21
69	Evidence of the Lower Thermospheric Winterâ€toâ€Summer Circulation From SABER CO₂ Observations. Geophysical Research Letters, 2017, 44, 10,100.	4.0	20
70	On the Responses of Mesosphere and Lower Thermosphere Temperatures to Geomagnetic Storms at Low and Middle Latitudes. Geophysical Research Letters, 2018, 45, 10,128.	4.0	20
71	Annual and Semiannual Oscillations of Thermospheric Composition in TIMED/GUVI Limb Measurements. Journal of Geophysical Research: Space Physics, 2019, 124, 3067-3082.	2.4	20
72	A TIEGCM numerical study of the source and evolution of ionospheric F-region tongues of ionization: Universal time and interplanetary magnetic field dependence. Journal of Atmospheric and Solar-Terrestrial Physics, 2017, 156, 87-96.	1.6	19

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73	Temporal Variability of Atomic Hydrogen From the Mesopause to the Upper Thermosphere. Journal of Geophysical Research: Space Physics, 2018, 123, 1006-1017.	2.4	19
74	Annual asymmetry in thermospheric density: Observations and simulations. Journal of Geophysical Research: Space Physics, 2013, 118, 2503-2510.	2.4	18
75	Response of GOLD Retrieved Thermospheric Temperatures to Geomagnetic Activities of Varying Magnitudes. Geophysical Research Letters, 2021, 48, e2021GL093905.	4.0	18
76	First Globalâ€Scale Synoptic Imaging of Solar Eclipse Effects in the Thermosphere. Journal of Geophysical Research: Space Physics, 2020, 125, e2020JA027789.	2.4	17
77	Globalâ€Scale Observations and Modeling of Farâ€Ultraviolet Airglow During Twilight. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027645.	2.4	16
78	Solar cycle variations of thermospheric O/N₂ longitudinal pattern from TIMED/GUVI. Journal of Geophysical Research: Space Physics, 2017, 122, 2605-2618.	2.4	15
79	Early Morning Equatorial Ionization Anomaly From GOLD Observations. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027487.	2.4	15
80	Thermospheric heating away from the auroral oval during geomagnetic storms. Canadian Journal of Physics, 1992, 70, 544-552.	1.1	14
81	Can atomic oxygen production explain the ionospheric annual asymmetry?. Journal of Geophysical Research: Space Physics, 2016, 121, 7238-7244.	2.4	14
82	Formation of Double Tongues of Ionization During the 17 March 2013 Geomagnetic Storm. Journal of Geophysical Research: Space Physics, 2019, 124, 10619-10630.	2.4	14
83	First Synoptic Observations of Geomagnetic Storm Effects on the Globalâ€Scale OI 135.6â€nm Dayglow in the Thermosphere by the GOLD Mission. Geophysical Research Letters, 2020, 47, e2019GL085400.	4.0	14
84	Globalâ€Scale Observations of the Limb and Disk Mission Implementation: 1. Instrument Design and Early Flight Performance. Journal of Geophysical Research: Space Physics, 2020, 125, e2020JA027797.	2.4	14
85	The Effects of IMF B_y on the Middle Thermosphere During a Geomagnetically â€œQuietâ€•Period at Solar Minimum. Journal of Geophysical Research: Space Physics, 2022, 127, .	2.4	13
86	Longitudinal Variation of Postsunset Plasma Depletions From the Globalâ€Scale Observations of the Limb and Disk (GOLD) Mission. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA028510.	2.4	12
87	Impact of GOLD Retrieved Thermospheric Temperatures on a Whole Atmosphere Data Assimilation Model. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA028646.	2.4	12
88	Modeled IMF B_y Effects on the Polar Ionosphere and Thermosphere Coupling. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA026949.	2.4	11
89	Responses of the Thermosphere and Ionosphere System to Concurrent Solar Flares and Geomagnetic Storms. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027431.	2.4	11
90	Effect of a solar flare on a traveling atmospheric disturbance. Journal of Geophysical Research, 2012, 117, .	3.3	10

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91	Solar cycle variations of thermospheric composition at the solstices. Journal of Geophysical Research: Space Physics, 2016, 121, 3740-3749.	2.4	10
92	Faster Traveling Atmosphere Disturbances Caused by Polar Ionosphere Turbulence Heating. Journal of Geophysical Research: Space Physics, 2018, 123, 2181-2191.	2.4	10
93	A Simulation Study on the Time Delay of Daytime Thermospheric Temperature Response to the 27â€Day Solar EUV Flux Variation. Journal of Geophysical Research: Space Physics, 2019, 124, 9184-9193.	2.4	10
94	One-dimensional hybrid satellite track model for the Dynamics Explorer 2 (DE 2) satellite. Journal of Geophysical Research, 1995, 100, 1611.	3.3	9
95	Longitudinal variations of thermospheric composition at the solstices. Journal of Geophysical Research: Space Physics, 2016, 121, 6818-6829.	2.4	9
96	Climate Changes in the Upper Atmosphere: Contributions by the Changing Greenhouse Gas Concentrations and Earth's Magnetic Field From the 1960s to 2010s. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA029067.	2.4	9
97	Longitudinal variations of the nighttime E layer electron density in the auroral zone. Journal of Geophysical Research: Space Physics, 2015, 120, 825-833.	2.4	8
98	Statistical behavior of the longitudinal variations of daytime electron density in the topside ionosphere at middle latitudes. Journal of Geophysical Research: Space Physics, 2016, 121, 11,560.	2.4	8
99	Observation of Thermospheric Gravity Waves in the Southern Hemisphere With GOLD. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027405.	2.4	8
100	Different Peak Response Time of Daytime Thermospheric Neutral Species to the 27â€Day Solar EUV Flux Variations. Journal of Geophysical Research: Space Physics, 2020, 125, e2020JA027840.	2.4	8
101	Deducing Nonâ€Migrating Diurnal Tides in the Middle Thermosphere With GOLD Observations of the Earth's far Ultraviolet Dayglow From Geostationary Orbit. Journal of Geophysical Research: Space Physics, 2021, 126, e2021JA029563.	2.4	8
102	First Comparison of Traveling Atmospheric Disturbances Observed in the Middle Thermosphere by Globalâ€Scale Observations of the Limb and Disk to Traveling Ionospheric Disturbances Seen in Groundâ€Based Total Electron Content Observations. Journal of Geophysical Research: Space Physics, 2021, 126, e2021JA029248.	2.4	6
103	Empirical Orthogonal Function Analysis and Modeling of the Topside Ionospheric and Plasmaspheric TECs. Journal of Geophysical Research: Space Physics, 2019, 124, 3681-3698.	2.4	5
104	Signatures of Thermosphericâ€Exospheric Coupling of Hydrogen in Observed Seasonal Trends of H Î± Intensity. Journal of Geophysical Research: Space Physics, 2019, 124, 4525-4538.	2.4	4
105	Variations of Lower Thermospheric FUV Emissions Based on GOLD Observations and GLOW Modeling. Journal of Geophysical Research: Space Physics, 2020, 125, e2020JA027810.	2.4	3
106	Comments on â€œPoststorm Thermospheric NO Overcooling?â€• by Mikhailov and PerroneÂ (2020). Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA027992.	2.4	3
107	Observations and Simulations of the Peak Response Time of Thermospheric Mass Density to the 27â€Day Solar EUV Flux Variation. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA028756.	2.4	2