

# Geoff Crowley

## List of Publications by Year in descending order

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Version: 2024-02-01

30  
papers

1,634  
citations

430874

18  
h-index

454955

30  
g-index

36  
all docs

36  
docs citations

36  
times ranked

1570  
citing authors

#	ARTICLE	IF	CITATIONS
1	Initial observations with the Global Ultraviolet Imager (GUVI) in the NASA TIMED satellite mission. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	305
2	The Ionospheric Connection Explorer Mission: Mission Goals and Design. <i>Space Science Reviews</i> , 2018, 214, 1.	8.1	152
3	Geomagnetically induced currents: Science, engineering, and applications readiness. <i>Space Weather</i> , 2017, 15, 828-856.	3.7	149
4	Sources of the traveling ionospheric disturbances observed by the ionospheric TIDDBIT sounder near Wallops Island on 30 October 2007. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	130
5	"Thermospheric dynamics during September 18â€“19, 1984: 1. Model simulations". <i>Journal of Geophysical Research</i> , 1989, 94, 16925-16944.	3.3	96
6	Periodic modulations in thermospheric composition by solar wind high speed streams. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	80
7	Characteristics of extreme geoelectric fields and their possible causes: Localized peak enhancements. <i>Geophysical Research Letters</i> , 2015, 42, 6916-6921.	4.0	80
8	Thermospheric density enhancements in the dayside cusp region during strong $B_{Y}$ conditions. <i>Geophysical Research Letters</i> , 2010, 37, .	4.0	79
9	Extended study of extreme geoelectric field event scenarios for geomagnetically induced current applications. <i>Space Weather</i> , 2013, 11, 121-131.	3.7	77
10	"Thermospheric dynamics during September 18â€“19, 1984: 2. Validation of the NCAR Thermospheric General Circulation Model". <i>Journal of Geophysical Research</i> , 1989, 94, 16945-16959.	3.3	62
11	Traveling ionospheric disturbances over the United States induced by gravity waves from the 2011 Tohoku tsunami and comparison with gravity wave dissipative theory. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 3430-3447.	2.4	58
12	Characteristics of traveling ionospheric disturbances observed by the TIDDBIT sounder. <i>Radio Science</i> , 2012, 47, .	1.6	53
13	Tracking of polar cap ionospheric patches using data assimilation. <i>Journal of Geophysical Research</i> , 2007, 112, n/a-n/a.	3.3	49
14	Quantification of high latitude electric field variability. <i>Geophysical Research Letters</i> , 2001, 28, 2783-2786.	4.0	38
15	Exploring predictive performance: A reanalysis of the geospace model transition challenge. <i>Space Weather</i> , 2017, 15, 192-203.	3.7	33
16	Analysis of traveling ionospheric disturbances (TIDs) in GPS TEC launched by the 2011 Tohoku earthquake. <i>Radio Science</i> , 2016, 51, 507-514.	1.6	25
17	A comprehensive rocket and radar study of midlatitude spread $F$ . <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	22
18	Dynamic Response of Ionospheric Plasma Density to the Geomagnetic Storm of 22â€“23 June 2015. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 7123-7139.	2.4	22

#	ARTICLE	IF	CITATIONS
19	The dynamic ionospheric polar hole. Radio Science, 1993, 28, 401-413.	1.6	20
20	Neutral wind and density perturbations in the thermosphere created by gravity waves observed by the TIDBIT sounder. Journal of Geophysical Research: Space Physics, 2017, 122, 6652-6678.	2.4	17
21	Ionospheric Horizontal Correlation Distances: Estimation, Analysis, and Implications for Ionospheric Data Assimilation. Radio Science, 2020, 55, e2020RS007159.	1.6	14
22	Evaluation of the New Background Covariance Model for the Ionospheric Data Assimilation. Radio Science, 2021, 56, e2021RS007286.	1.6	12
23	Extreme Ionospheric Storms and Their Effects on GPS Systems. , 2018, , 555-586.		11
24	Ionospheric Vertical Correlation Distances: Estimation From ISR Data, Analysis, and Implications For Ionospheric Data Assimilation. Radio Science, 2021, 56, e2020RS007177.	1.6	11
25	Dynamical Coupling Between the Low-Latitude Lower Thermosphere and Ionosphere via the Nonmigrating Diurnal Tide as Revealed by Concurrent Satellite Observations and Numerical Modeling. Geophysical Research Letters, 2021, 48, e2021GL093277.	4.0	9
26	Investigation of Acoustic Waves in the Ionosphere Generated by a Deep Convection System Using Distributed Networks of GPS Receivers and Numerical Modeling. Geophysical Research Letters, 2018, 45, 8014-8021.	4.0	6
27	The Global Analysis of the Ionospheric Correlation Time and Its Implications for Ionospheric Data Assimilation. Radio Science, 2020, 55, e2020RS007181.	1.6	6
28	A New Frontier in Ionospheric Observations: GPS Total Electron Content Measurements From Ocean Buoys. Space Weather, 2020, 18, e2020SW002571.	3.7	4
29	Achievements and Lessons Learned From Successful Small Satellite Missions for Space Weather-Oriented Research. Space Weather, 2022, 20, .	3.7	4
30	Data Assimilation Retrieval of Electron Density Profiles From Ionosonde Virtual Height Data. Radio Science, 2021, 56, e2021RS007264.	1.6	1