Geoff Crowley

List of Publications by Year
in descending order

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	Achievements and Lessons Learned From Successful Small Satellite Missions for Space Weatherâ€Oriented Research. Space Weather, 2022, 20, .	3.7	4
2	Ionospheric Vertical Correlation Distances: Estimation From ISR Data, Analysis, and Implications For Ionospheric Data Assimilation. Radio Science, 2021, 56, e2020RS007177.	1.6	11
3	Data Assimilation Retrieval of Electron Density Profiles From Ionosonde Virtual Height Data. Radio Science, 2021, 56, e2021RS007264.	1.6	1
4	Dynamical Coupling Between the Lowâ€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
5	Evaluation of the New Background Covariance Model for the Ionospheric Data Assimilation. Radio Science, 2021, 56, e2021RS007286.	1.6	12
6	Ionospheric Horizontal Correlation Distances: Estimation, Analysis, and Implications for Ionospheric Data Assimilation. Radio Science, 2020, 55, e2020RS007159.	1.6	14
7	A New Frontier in Ionospheric Observations: GPS Total Electron Content Measurements From Ocean Buoys. Space Weather, 2020, 18, e2020SW002571.	3.7	4
8	The Global Analysis of the Ionospheric Correlation Time and Its Implications for Ionospheric Data Assimilation. Radio Science, 2020, 55, e2020RS007181.	1.6	6
9	Dynamic Response of Ionospheric Plasma Density to the Geomagnetic Storm of 22â€23 June 2015. Journal of Geophysical Research: Space Physics, 2019, 124, 7123-7139.	2.4	22
10	Extreme Ionospheric Storms and Their Effects on GPS Systems. , 2018, , 555-586.		11
11	The Ionospheric Connection Explorer Mission: Mission Goals and Design. Space Science Reviews, 2018, 214, 1.	8.1	152
12	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
13	Exploring predictive performance: A reanalysis of the geospace model transition challenge. Space Weather, 2017, 15, 192-203.	3.7	33
14	Traveling ionospheric disturbances over the United States induced by gravity waves from the 2011 Tohoku tsunami and comparison with gravity wave dissipative theory. Journal of Geophysical Research: Space Physics, 2017, 122, 3430-3447.	2.4	58
15	Geomagnetically induced currents: Science, engineering, and applications readiness. Space Weather, 2017, 15, 828-856.	3.7	149
16	Neutral wind and density perturbations in the thermosphere created by gravity waves observed by the TIDDBIT sounder. Journal of Geophysical Research: Space Physics, 2017, 122, 6652-6678.	2.4	17
17	Analysis of traveling ionospheric disturbances (TIDs) in GPS TEC launched by the 2011 Tohoku earthquake. Radio Science, 2016, 51, 507-514.	1.6	25
18	Characteristics of extreme geoelectric fields and their possible causes: Localized peak enhancements. Geophysical Research Letters, 2015, 42, 6916-6921.	4.0	80

#	Article	IF	Citations
19	Extended study of extreme geoelectric field event scenarios for geomagnetically induced current applications. Space Weather, 2013, 11, 121-131.	3.7	77
20	Characteristics of traveling ionospheric disturbances observed by the TIDDBIT sounder. Radio Science, 2012, 47, .	1.6	53
21	Thermospheric density enhancements in the dayside cusp region during strong B_Y conditions. Geophysical Research Letters, 2010, 37, .	4.0	79
22	A comprehensive rocket and radar study of midlatitude spread F. Journal of Geophysical Research, 2010, 115, .	3.3	22
23	Sources of the traveling ionospheric disturbances observed by the ionospheric TIDDBIT sounder near Wallops Island on 30 October 2007. Journal of Geophysical Research, 2010, 115, .	3.3	130
24	Periodic modulations in thermospheric composition by solar wind high speed streams. Geophysical Research Letters, 2008, 35, .	4.0	80
25	Tracking of polar cap ionospheric patches using data assimilation. Journal of Geophysical Research, 2007, 112, n/a-n/a.	3.3	49
26	Initial observations with the Global Ultraviolet Imager (GUVI) in the NASA TIMED satellite mission. Journal of Geophysical Research, 2003, 108, .	3.3	305
27	Quantification of high latitude electric field variability. Geophysical Research Letters, 2001, 28, 2783-2786.	4.0	38
28	The dynamic ionospheric polar hole. Radio Science, 1993, 28, 401-413.	1.6	20
29	"Thermospheric dynamics during September 18â€“19, 1984: 1. Model simulations"". Journal of Geophysical Research, 1989, 94, 16925-16944.	3.3	96
30	"Thermospheric dynamics during September 18â€“19, 1984: 2. Validation of the NCAR Thermospheric General Circulation Model"". Journal of Geophysical Research, 1989, 94, 16945-16959.	3.3	62