Anthony J Mannucci

List of Publications by Year
in descending order

171 papers	8,649 citations	50170 46 h-index	48187 88 g-index
189 all docs	189 docs citations	189 times ranked	4439 citing authors

#	Article	IF	Citations
1	A global mapping technique for GPS-derived ionospheric total electron content measurements. Radio Science, 1998, 33, 565-582.	0.8	1,078
2	Monitoring of global ionospheric irregularities using the Worldwide GPS Network. Geophysical Research Letters, 1997, 24, 2283-2286.	1.5	692
3	Global dayside ionospheric uplift and enhancement associated with interplanetary electric fields. Journal of Geophysical Research, 2004, 109, .	3.3	401
4	Dayside global ionospheric response to the major interplanetary events of October 29-30, 2003 â€œHalloween Stormsâ€. Geophysical Research Letters, 2005, 32, n/a-n/a.	1.5	401
5	CHAMP and SAC-C atmospheric occultation results and intercomparisons. Journal of Geophysical Research, 2004, 109, n/a-n/a.	3.3	291
6	Achieving Climate Change Absolute Accuracy in Orbit. Bulletin of the American Meteorological Society, 2013, 94, 1519-1539.	1.7	239
7	The October 28, 2003 extreme EUV solar flare and resultant extreme ionospheric effects: Comparison to other Halloween events and the Bastille Day event. Geophysical Research Letters, 2005, 32, .	1.5	212
8	Prompt penetration electric fields (PPEFs) and their ionospheric effects during the great magnetic storm of 30â€"31 October 2003. Journal of Geophysical Research, 2008, 113, .	3.3	190
9	Demonstrating soil moisture remote sensing with observations from the UK TechDemoSatâ€1 satellite mission. Geophysical Research Letters, 2016, 43, 3317-3324.	1.5	174
10	SporadicEmorphology from GPS-CHAMP radio occultation. Journal of Geophysical Research, 2005, 110, .	3.3	155
11	Global ionosphere perturbations monitored by the Worldwide GPS Network. Geophysical Research Letters, 1996, 23, 3219-3222.	1.5	149
12	Automated daily processing of more than 1000 ground-based GPS receivers for studying intense ionospheric storms. Radio Science, 2005, 40, n/a-n/a.	0.8	147
13	A brief review of â€œsolar flare effectsâ€on the ionosphere. Radio Science, 2009, 44, .	0.8	138
14	Ionospheric signatures of Tohokuâ€Oki tsunami of March 11, 2011: Model comparisons near the epicenter. Radio Science, 2012, 47, .	0.8	134
15	Lower troposphere refractivity bias in GPS occultation retrievals. Journal of Geophysical Research, 2003, 108, .	3.3	124
16	Subdaily northern hemisphere ionospheric maps using an extensive network of GPS receivers. Radio Science, 1995, 30, 639-648.	0.8	117
17	Estimating the uncertainty of using GPS radio occultation data for climate monitoring: Intercomparison of CHAMP refractivity climate records from 2002 to 2006 from different data centers. Journal of Geophysical Research, 2009, 114, .	3.3	116
18	Quantification of structural uncertainty in climate data records from GPS radio occultation. Atmospheric Chemistry and Physics, 2013, 13, 1469-1484.	1.9	113

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19	Reproducibility of GPS radio occultation data for climate monitoring: Profileâ€toâ€profile interâ€comparison of CHAMP climate records 2002 to 2008 from six data centers. Journal of Geophysical Research, 2012, 117, .	3.3	109
20	Planetary boundary layer heights from GPS radio occultation refractivity and humidity profiles. Journal of Geophysical Research, 2012, 117, .	3.3	106
21	The 2009 Samoa and 2010 Chile tsunamis as observed in the ionosphere using GPS total electron content. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	93
22	Wetland monitoring with Global Navigation Satellite System reflectometry. Earth and Space Science, 2017, 4, 16-39.	1.1	91
23	Detecting ionospheric TEC perturbations caused by natural hazards using a global network of GPS receivers: The Tohoku case study. Earth, Planets and Space, 2012, 64, 1287-1294.	0.9	88
24	The COSMIC/FORMOSAT-3 Radio Occultation Mission after 12 Years: Accomplishments, Remaining Challenges, and Potential Impacts of COSMIC-2. Bulletin of the American Meteorological Society, 2020, 101, E1107-E1136.	1.7	88
25	Real-Time Detection of Tsunami Ionospheric Disturbances with a Stand-Alone GNSS Receiver: A Preliminary Feasibility Demonstration. Scientific Reports, 2017, 7, 46607.	1.6	86
26	A comparative study of ionospheric total electron content measurements using global ionospheric maps of GPS, TOPEX radar, and the Bent model. Radio Science, 1997, 32, 1499-1512.	0.8	83
27	Space Weather Observations by GNSS Radio Occultation: From FORMOSATâ€3/COSMIC to FORMOSATâ€7/COSMICâ€2. Space Weather, 2014, 12, 616-621.	1.3	81
28	Superposed epoch analysis of the dayside ionospheric response to four intense geomagnetic storms. Journal of Geophysical Research, 2008, 113, .	3.3	79
29	Effect of intense December 2006 solar radio bursts on GPS receivers. Space Weather, 2008, 6, .	1.3	79
30	Ionospheric total electron content perturbations monitored by the GPS global network during two northern hemisphere winter storms. Journal of Geophysical Research, 1998, 103, 26409-26420.	3.3	74
31	Advances and limitations of atmospheric boundary layer observations with GPS occultation over southeast Pacific Ocean. Atmospheric Chemistry and Physics, 2012, 12, 903-918.	1.9	72
32	CEDAR Electrodynamics Thermosphere Ionosphere (ETI) Challenge for systematic assessment of ionosphere/thermosphere models: NmF2, hmF2, and vertical drift using groundâ€based observations. Space Weather, 2011, 9, .	1.3	71
33	CEDAR Electrodynamics Thermosphere Ionosphere (ETI) Challenge for systematic assessment of ionosphere/thermosphere models: Electron density, neutral density, NmF2, and hmF2 using space based observations. Space Weather, 2012, 10, .	1.3	65
34	Rising and setting GPS occultations by use of openâ€loop tracking. Journal of Geophysical Research, 2009, 114, .	3.3	63
35	XUV Photometer System (XPS): Improved Solar Irradiance Algorithm Using CHIANTI Spectral Models. Solar Physics, 2008, 250, 235-267.	1.0	62
36	Heliospheric plasma sheet (HPS) impingement onto the magnetosphere as a cause of relativistic electron dropouts (REDs) via coherent EMIC wave scattering with possible consequences for climate change mechanisms. Journal of Geophysical Research: Space Physics, 2016, 121, 10,130.	0.8	59

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37	JPL/USC GAIM: On the impact of using COSMIC and groundâ€based GPS measurements to estimate ionospheric parameters. Journal of Geophysical Research, 2010, 115, .	3.3	58
38	The interplanetary causes of geomagnetic activity during the 7â€“17 March 2012 interval: a CAWSES II overview. Journal of Space Weather and Space Climate, 2014, 4, A02.	1.1	58
39	Assessment of global TEC mapping using a three-dimensional electron density model. Journal of Atmospheric and Solar-Terrestrial Physics, 1999, 61, 1227-1236.	0.6	54
40	Review and perspectives: Understanding naturalâ€hazardsâ€generated ionospheric perturbations using GPS measurements and coupled modeling. Radio Science, 2016, 51, 951-961.	0.8	53
41	Superâ€refraction effects on GPS radio occultation refractivity in marine boundary layers. Geophysical Research Letters, 2010, 37, .	1.5	51
42	Variability of ionospheric TEC during solar and geomagnetic minima (2008 and 2009): external high speed stream drivers. Annales Geophysicae, 2013, 31, 263-276.	0.6	51
43	A Review of AlfvÃ©nic Turbulence in Highâ€Speed Solar Wind Streams: Hints From Cometary Plasma Turbulence. Journal of Geophysical Research: Space Physics, 2018, 123, 2458-2492.	0.8	51
44	Unusual topside ionospheric density response to the November 2003 superstorm. Journal of Geophysical Research, 2006, 111, .	3.3	49
45	New Capabilities for Prediction of Highâ€Latitude Ionospheric Scintillation: A Novel Approach With Machine Learning. Space Weather, 2018, 16, 1817-1846.	1.3	49
46	Ionospheric Storms at Mid-Latitude: A Short Review. Geophysical Monograph Series, 0, , 9-24.	0.1	48
47	Solar wind driving of ionosphereâ€thermosphere responses in three storms near St. Patrick's Day in 2012, 2013, and 2015. Journal of Geophysical Research: Space Physics, 2016, 121, 8900-8923.	0.8	48
48	Ionospheric redistribution during geomagnetic storms. Journal of Geophysical Research: Space Physics, 2013, 118, 7928-7939.	0.8	47
49	Local time dependence of the prompt ionospheric response for the 7, 9, and 10 November 2004 superstorms. Journal of Geophysical Research, 2009, 114, .	3.3	45
50	The Solar and Interplanetary Causes of Superstorms (Minimum <i>Dst</i> â‰¤ âˆ'250 nT) During the Space Age. Journal of Geophysical Research: Space Physics, 2019, 124, 3926-3948.	0.8	45
51	The impact of large scale ionospheric structure on radio occultation retrievals. Atmospheric Measurement Techniques, 2011, 4, 2837-2850.	1.2	42
52	Comparison of COSMIC occultationâ€based electron density profiles and TIP observations with Arecibo incoherent scatter radar data. Radio Science, 2009, 44, .	0.8	41
53	Oxygen ion uplift and satellite drag effects during the 30 October 2003 daytime superfountain event. Annales Geophysicae, 2007, 25, 569-574.	0.6	40
54	Global ionospheric TEC variations during January 10, 1997 storm. Geophysical Research Letters, 1998, 25, 2589-2592.	1.5	38

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55	SAMI3/SDâ€WACCMâ€X simulations of ionospheric variability during northern winter 2009. Space Weather, 2015, 13, 568-584.	1.3	35
56	The ionospheric impact of the October 2003 storm event on Wide Area Augmentation System. GPS Solutions, 2005, 9, 41-50.	2.2	34
57	Ionospheric VTEC and thermospheric infrared emission dynamics during corotating interaction region and high-speed stream intervals at solar minimum: 25 March to 26 April 2008. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	34
58	A Comprehensive Analysis of Multiscale Fieldâ€Aligned Currents: Characteristics, Controlling Parameters, and Relationships. Journal of Geophysical Research: Space Physics, 2017, 122, 11,931.	0.8	33
59	Consistency and structural uncertainty of multi-mission GPS radio occultation records. Atmospheric Measurement Techniques, 2020, 13, 2547-2575.	1.2	33
60	A new physicsâ€based modeling approach for tsunamiâ€ionosphere coupling. Geophysical Research Letters, 2015, 42, 4736-4744.	1.5	32
61	Atmospheric diurnal variations observed with GPS radio occultation soundings. Atmospheric Chemistry and Physics, 2010, 10, 6889-6899.	1.9	31
62	Attribution of interminimum changes in global and hemispheric total electron content. Journal of Geophysical Research: Space Physics, 2017, 122, 2424-2439.	0.8	30
63	Assessing the performance of GPS radio occultation measurements in retrieving tropospheric humidity in cloudiness: A comparison study with radiosondes, ERA-Interim, and AIRS data sets. Journal of Geophysical Research D: Atmospheres, 2014, 119, 7718-7731.	1.2	29
64	Ushering in a New Frontier in Geospace Through Data Science. Journal of Geophysical Research: Space Physics, 2017, 122, 12,586.	0.8	28
65	Assimilative Modeling of Ionospheric Disturbances with FORMOSAT-3/COSMIC and Ground-Based GPS Measurements. Terrestrial, Atmospheric and Oceanic Sciences, 2009, 20, 273.	0.3	27
66	Ensemble Modeling with Data Assimilation Models: A New Strategy for Space Weather Specifications, Forecasts, and Science. Space Weather, 2014, 12, 123-126.	1.3	26
67	Tohoku-Oki earthquake caused major ionospheric disturbances at 450â€‰km altitude over Alaska. Radio Science, 2014, 49, 1206-1213.	0.8	26
68	Space weather forecasting with a Multimodel Ensemble Prediction System (MEPS). Radio Science, 2016, 51, 1157-1165.	0.8	26
69	New leveling and bias estimation algorithms for processing COSMIC/FORMOSATâ€3 data for slant total electron content measurements. Radio Science, 2011, 46, .	0.8	24
70	Improving GPS Radio occultation stratospheric refractivity retrievals for climate benchmarking. Geophysical Research Letters, 2012, 39, .	1.5	24
71	The 2013 Chelyabinsk meteor ionospheric impact studied using GPS measurements. Radio Science, 2014, 49, 341-350.	0.8	24
72	Extreme changes in the dayside ionosphere during a Carrington-type magnetic storm. Journal of Space Weather and Space Climate, 2012, 2, A05.	1.1	23

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73	On the comparisons of tropical relative humidity in the lower and middle troposphere among COSMIC radio occultations and MERRA and ECMWF data sets. Atmospheric Measurement Techniques, 2015, 8, 1789-1797.	1.2	22
74	Physicsâ€Based Modeling of Earthquakeâ€Induced Ionospheric Disturbances. Journal of Geophysical Research: Space Physics, 2018, 123, 8021-8038.	0.8	22
75	GPS normalization and preliminary modeling results of total electron content during a midlatitude space weather event. Radio Science, 2001, 36, 351-361.	0.8	21
76	A comprehensive survey of atmospheric quasi 3â€‰day planetaryâ€scale waves and their impacts on the dayâ€toâ€day variations of the equatorial ionosphere. Journal of Geophysical Research: Space Physics, 2015, 120, 2979-2992.	0.8	21
77	Revisiting Ionosphereâ€Thermosphere Responses to Solar Wind Driving in Superstorms of November 2003 and 2004. Journal of Geophysical Research: Space Physics, 2017, 122, 10,824.	0.8	21
78	A correlation study regarding the AE index and ACE solar wind data for AlfvÃ©nic intervals using wavelet decomposition and reconstruction. Nonlinear Processes in Geophysics, 2018, 25, 67-76.	0.6	21
79	Ionospheric-Magnetospheric-Heliospheric Coupling: Storm-Time Thermal Plasma Redistribution. Geophysical Monograph Series, 0, , 121-134.	0.1	20
80	Heterodyne spectroscopy of carbon monoxide lines perturbed by hydrogen and helium. Journal of Chemical Physics, 1991, 95, 7795-7805.	1.2	19
81	Extreme solar EUV flares and ICMEs and resultant extreme ionospheric effects: Comparison of the Halloween 2003 and the Bastille Day events. Radio Science, 2006, 41, .	0.8	19
82	Observational tests of hurricane intensity estimations using GPS radio occultations. Journal of Geophysical Research D: Atmospheres, 2014, 119, 1936-1948.	1.2	19
83	GPS radio occupations coming of age: Spacecraft launches add two new instruments for climate monitoring. Eos, 2002, 83, 37.	0.1	18
84	Electron density retrieval from occulting GNSS signals using a gradient-aided inversion technique. Advances in Space Research, 2011, 47, 289-295.	1.2	18
85	Global Modeling of Storm-Time Thermospheric Dynamics and Electrodynamics. Geophysical Monograph Series, 0, , 187-200.	0.1	18
86	A first demonstration of Mars crosslink occultation measurements. Radio Science, 2015, 50, 997-1007.	0.8	18
87	Medium-Range Thermosphere-Ionosphere Storm Forecasts. Space Weather, 2015, 13, 125-129.	1.3	18
88	Ionosphereâ€thermosphere energy budgets for the ICME storms of March 2013 and 2015 estimated with GITM and observational proxies. Space Weather, 2017, 15, 1102-1124.	1.3	18
89	Statistical characterization of ionosphere anomalies and their relationship to space weather events. Journal of Space Weather and Space Climate, 2016, 6, A5.	1.1	17
90	CEDARâ€GEM Challenge for Systematic Assessment of Ionosphere/Thermosphere Models in Predicting TEC During the 2006 December Storm Event. Space Weather, 2017, 15, 1238-1256.	1.3	17

#	ARTICLE	IF	CITATIONS
91	Generating climate benchmark atmospheric soundings using GPS occultation data. , 2006, , .		15
92	Simulation of PPEF Effects in Dayside Low-Latitude Ionosphere for the October 30, 2003, Superstorm. Geophysical Monograph Series, 0, , 169-177.	0.1	15
93	Multiinstrument observations of a geomagnetic storm and its effects on the Arctic ionosphere: A case study of the 19 February 2014 storm. Radio Science, 2017, 52, 146-165.	0.8	15
94	A Study of Daytime Lâ€Band Scintillation in Association With Sporadic <i>E</i> Along the Magnetic Dip Equator. Radio Science, 2017, 52, 1570-1577.	0.8	15
95	Comment on â€œModeling Extreme â€œCarringtonâ€Typeâ€•Space Weather Events Using Threeâ€Dimensional Global MHD Simulationsâ€•by C. M. Ngwira, A. Pulkkinen, M. M. Kuznetsova, and A. Glocerâ€• Journal of Geophysical Research: Space Physics, 2018, 123, 1388-1392.	0.8	15
96	Dayside ionospheric (GPS) response to corotating solar wind streams. Geophysical Monograph Series, 2006, , 245-270.	0.1	14
97	Use of the L2C signal for inversions of GPS radio occultation data in the neutral atmosphere. GPS Solutions, 2014, 18, 405-416.	2.2	14
98	Sudden ionospheric delay decorrelation and its impact on the Wide Area Augmentation System (WAAS). Radio Science, 2004, 39, n/a-n/a.	0.8	13
99	Storm Time Energy Budgets of the Global Thermosphere. Geophysical Monograph Series, 0, , 235-246.	0.1	13
100	Intraseasonal temperature variability in the upper troposphere and lower stratosphere from the GPS radio occultation measurements. Journal of Geophysical Research, 2012, 117, .	3.3	13
101	Intermediateâ€scale plasma irregularities in the polar ionosphere inferred from GPS radio occultation. Geophysical Research Letters, 2015, 42, 688-696.	1.5	13
102	Satelliteâ€based observations of tsunamiâ€induced mesosphere airglow perturbations. Geophysical Research Letters, 2017, 44, 522-532.	1.5	13
103	An Assessment of the Current WAAS Ionospheric Correction Algorithm in the South American Region. Navigation, Journal of the Institute of Navigation, 2003, 50, 193-204.	1.7	12
104	GPS-based remote sensing of the geospace environment: horizontal and vertical structure of the ionosphere and plasmasphere. , 2004, , .		12
105	Characterization of the impact of GLONASS observables on receiver bias estimation for ionospheric studies. Radio Science, 2016, 51, 1010-1021.	0.8	12
106	Estimation of energy budget of ionosphere-thermosphere system during two CIR-HSS events: observations and modeling. Journal of Space Weather and Space Climate, 2016, 6, A20.	1.1	12
107	Finding multiscale connectivity in our geospace observational system: Network analysis of total electron content. Journal of Geophysical Research: Space Physics, 2017, 122, 7683-7697.	0.8	12
108	Semianalytical Estimation of Energy Deposition in the Ionosphere by Monochromatic AlfvÃ©n Waves. Journal of Geophysical Research: Space Physics, 2018, 123, 5210-5222.	0.8	12

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109	Altitudinal variation of midlatitude localized TEC enhancement from groundâ€and spaceâ€based measurements. Space Weather, 2008, 6, .	1.3	11
110	Low- and Middle-Latitude Ionospheric Dynamics Associated with Magnetic Storms. Geophysical Monograph Series, 0, , 51-61.	0.1	11
111	A validation study for GPS radio occultation data with moist thermodynamic structure of tropical cyclones. Journal of Geophysical Research D: Atmospheres, 2013, 118, 9401-9413.	1.2	11
112	Possible Influence of Extreme Magnetic Storms on the Thermosphere in the High Latitudes. Space Weather, 2018, 16, 802-813.	1.3	11
113	Future of Planetary Atmospheric, Surface, and Interior Science Using Radio and Laser Links. Radio Science, 2019, 54, 365-377.	0.8	11
114	Echo of ring current storms in the ionosphere. Journal of Atmospheric and Solar-Terrestrial Physics, 2020, 205, 105300.	0.6	11
115	Modulation of equatorial electrojet irregularities by atmospheric gravity waves. Journal of Geophysical Research: Space Physics, 2014, 119, 366-374.	0.8	10
116	Evaluation of CMIP5 upper troposphere and lower stratosphere geopotential height with GPS radio occultation observations. Journal of Geophysical Research D: Atmospheres, 2015, 120, 1678-1689.	1.2	10
117	Comparisons of the tropospheric specific humidity from GPS radio occultations with ERA-Interim, NASA MERRA, and AIRS data. Atmospheric Measurement Techniques, 2018, 11, 1193-1206.	1.2	10
118	Localized thermosphere ionization events during the highâ€speed stream interval of 29 April to 5 May 2011. Journal of Geophysical Research: Space Physics, 2015, 120, 675-696.	0.8	9
119	On forecasting ionospheric total electron content responses to high-speed solar wind streams. Journal of Space Weather and Space Climate, 2016, 6, A19.	1.1	9
120	On measuring the off-equatorial conductivity before and during convective ionospheric storms. Geophysical Research Letters, 2004, 31, n/a-n/a.	1.5	8
121	Hemispheric daytime ionospheric response to intense solar wind forcing. Geophysical Monograph Series, 2005, , 261-275.	0.1	8
122	How Do Coronal Hole Storms Affect the Upper Atmosphere?. Eos, 2012, 93, 77-79.	0.1	8
123	Use of radio occultation to probe the high-latitude ionosphere. Atmospheric Measurement Techniques, 2015, 8, 2789-2800.	1.2	8
124	Scientific challenges in thermosphere-ionosphere forecasting â€“ conclusions from the October 2014 NASA JPL community workshop. Journal of Space Weather and Space Climate, 2016, 6, E01.	1.1	8
125	Comment on: Heterodyne spectroscopy of carbon monoxide lines perturbed by hydrogen and helium. Journal of Chemical Physics, 1992, 97, 1610-1611.	1.2	7
126	Single frequency processing of atmospheric radio occultations. International Journal of Remote Sensing, 2004, 25, 3731-3744.	1.3	7

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127	Detection of temperatures conducive to Arctic polar stratospheric clouds using CHAMP and SACâ€C radio occultation data. Journal of Geophysical Research, 2009, 114, .	3.3	7
128	Using GPS radio occultations to infer the water vapor feedback. Geophysical Research Letters, 2016, 43, 11,841.	1.5	7
129	Equatorial Intraseasonal Temperature Oscillations in the Lower Thermosphere From SABER. Geophysical Research Letters, 2018, 45, 10,893.	1.5	7
130	Ionospheric Electron Content During Solar Cycle 23. Journal of Geophysical Research: Space Physics, 2018, 123, 5223-5231.	0.8	7
131	Quantifying the Tropical Upper Tropospheric Warming Amplification Using Radio Occultation Measurements. Earth and Space Science, 2021, 8, e2020EA001597.	1.1	7
132	Sensitivity of Stratospheric Retrievals from Radio Occultations on Upper Boundary Conditions. , 2006, , 17-26.		7
133	Backpropagation Processing of GPS Radio Occultation Data. , 2003, , 415-422.		7
134	Interplanetary Causes of Middle Latitude Ionospheric Disturbances. Geophysical Monograph Series, 0, , 99-119.	0.1	6
135	Flux tube analysis of Lâ€band ionospheric scintillation. Journal of Geophysical Research: Space Physics, 2013, 118, 3791-3804.	0.8	6
136	Demonstration of Mars crosslink occultation measurements for future small spacecraft constellations. , 2016, , .		6
137	Evaluation of Total Electron Content Prediction Using Three Ionosphereâ€Thermosphere Models. Space Weather, 2020, 18, e2020SW002452.	1.3	6
138	Ionospheric specification algorithms for precise GPS-based aircraft navigation. Radio Science, 2001, 36, 287-298.	0.8	5
139	Mapping the Time-Varying Distribution of High-Altitude Plasma During Storms. Geophysical Monograph Series, 0, , 91-98.	0.1	5
140	Midlatitude Ionospheric Dynamics and Disturbances: Introduction. Geophysical Monograph Series, 0, , 1-7.	0.1	5
141	Wetland mapping and measurement of flood inundated area using ground-reflected GNSS signals in a bistatic radar system. , 2016, , .		5
142	Optical and Radio Observations and AMIE/TIEGCM Modeling of Nighttime Traveling Ionospheric Disturbances at Midlatitudes During Geomagnetic Storms. Geophysical Monograph Series, 0, , 271-281.	0.1	4
143	First calculation of phase and coherence of longitudinally separated Lâ€band equatorial ionospheric scintillation. Geophysical Research Letters, 2013, 40, 3496-3501.	1.5	4
144	Ionosphere and Thermosphere Responses to Extreme Geomagnetic Storms âŽ. , 2018, , 493-511.		4

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145	Polar Sea Ice Thickness and Melt Pond Fraction Measurements with Multi-Frequency Bistatic Radar Polarimetric and Interferometric Reflectometry. , 2019, , .		4
146	Challenges in Specifying and Predicting Space Weather. Space Weather, 2021, 19, e2019SW002404.	1.3	4
147	Determination of Position of Jupiter From Very-Long Baseline Interferometry Observations of ULYSSES. Astronomical Journal, 1996, 112, 1294.	1.9	4
148	TEMPORAL DEVELOPMENT OF DAYSIDE TEC VARIATIONS DURING THE OCTOBER 30, 2003 SUPERSTORM: MATCHING MODELING TO OBSERVATIONS. , 2007, , 69-77.		4
149	Remote Sensing of Fine-Scale Vertical Structures in the Atmosphere with GPS Occultations. , 2004, , .		3
150	A Data-model Comparative Study of Ionospheric Positive Storm Phase in the Midlatitude F Region. Geophysical Monograph Series, 0, , 63-75.	0.1	3
151	Effect of smallâ€scale ionospheric variability on GNSS radio occultation data quality. Journal of Geophysical Research: Space Physics, 2015, 120, 7937-7951.	0.8	3
152	The future of planetary atmospheric, surface, and interior science using radio and laser links. , 2017, , .		3
153	On the role of neutral flow in field-aligned currents. Annales Geophysicae, 2018, 36, 53-57.	0.6	3
154	Thermosphereâ€Ionosphere Modeling With Forecastable Inputs: Case Study of the June 2012 Highâ€Speed Stream Geomagnetic Storm. Space Weather, 2020, 18, e2019SW002352.	1.3	3
155	Charting a Path Toward Improved Space Weather Forecasting. Space Weather, 2012, 10, n/a-n/a.	1.3	2
156	Impact of the Neutral Wind Dynamo on the Development of the Region 2 Dynamo. Geophysical Monograph Series, 0, , 179-186.	0.1	2
157	Studying the Atmosphere Using Global Navigation Satellites. Eos, 2014, 95, 389-391.	0.1	2
158	On scientific inference in geophysics and the use of numerical simulations for scientific investigations. Earth and Space Science, 2015, 2, 359-367.	1.1	2
159	Mediumâ€Range Forecasting of Solar Wind: A Case Study of Building Regression Model With Space Weather Forecast Testbed (SWFT). Space Weather, 2020, 18, e2019SW002433.	1.3	2
160	<title>Toward new scientific observations from GPS occultations: advances in retrieval methods</title>. , 2004, , .		1
161	Assimilation of Observations with Models to Better Understand Severe Ionospheric Weather at Mid-Latitudes. Geophysical Monograph Series, 0, , 35-49.	0.1	1
162	New developments on estimating satellite interfrequency bias for SVN49. GPS Solutions, 2011, 15, 233-238.	2.2	1

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163	Polar Topside TEC Enhancement Revealed by Jasonâ€2 Measurements. Earth and Space Science, 2021, 8, e2020EA001429.	1.1	1
164	Tomographic Radio Occultation Methods Applied to a Dense Cubesat Formation in Low Mars Orbit. Radio Science, 2021, 56, e2020RS007199.	0.8	1
165	Middle-Latitude Ionospheric Irregularities and Scintillation During Geomagnetic Storms. , 0, , .		1
166	Multiple Scientific Uses of Radio Occultation: Global Navigation Satellite System Radio Occultation Workshop; Pasadena, California, 7-9 April 2009. Eos, 2009, 90, 251-251.	0.1	0
167	Optical and Radio Observations of Structure in the Midlatitude Ionosphere: Midlatitude Ionospheric Dynamics and Disturbances. Geophysical Monograph Series, 0, , 311-317.	0.1	0
168	Phase and coherence analysis of VHF scintillation over Christmas Island. Annales Geophysicae, 2014, 32, 293-300.	0.6	0
169	Community-wide model validation study for systematic assessment of ionosphere models. , 2015, , .		0
170	High-value remote sensing for the geosciences: Opportunistic use of navigation satellite signals. , 2017, , .		0
171	New lightningâ€derived vertical total electron content data provides unique global ionospheric measurements. Space Weather, 0, , .	1.3	0