Pierdavide CoÃ¯sson

List of Publications by Year
in descending order

41 papers	2,738 citations	361045 20 h-index	329751 37 g-index
51 all docs	51 docs citations	51 times ranked	3102 citing authors

#	Article	IF	Citations
1	International Geomagnetic Reference Field: the 12th generation. Earth, Planets and Space, 2015, 67, .	0.9	1,015
2	A new version of the NeQuick ionosphere electron density model. Journal of Atmospheric and Solar-Terrestrial Physics, 2008, 70, 1856-1862.	0.6	584
3	Topside electron density in IRI and NeQuick: Features and limitations. Advances in Space Research, 2006, 37, 937-942.	1.2	171
4	Imaging and modeling the ionospheric airglow response over Hawaii to the tsunami generated by the Tohoku earthquake of 11 March 2011. Geophysical Research Letters, 2011, 38, n/a-n/a.	1.5	127
5	The 15 January 2022 Hunga Tonga Eruption History as Inferred From Ionospheric Observations. Geophysical Research Letters, 2022, 49, .	1.5	90
6	Three-dimensional numerical modeling of tsunami-related internal gravity waves in the Hawaiian atmosphere. Earth, Planets and Space, 2011, 63, 847-851.	0.9	77
7	Study of the Equatorial and Lowâ€Latitude Electrodynamic and Ionospheric Disturbances During the 22â€“23 June 2015 Geomagnetic Storm Using Groundâ€Based and Spaceborne Techniques. Journal of Geophysical Research: Space Physics, 2018, 123, 2424-2440.	0.8	57
8	First tsunami gravity wave detection in ionospheric radio occultation data. Earth and Space Science, 2015, 2, 125-133.	1.1	55
9	A near-real-time model-assisted ionosphere electron density retrieval method. Radio Science, 2006, 41, n/a-n/a.	0.8	53
10	Use of total electron content data to analyze ionosphere electron density gradients. Advances in Space Research, 2007, 39, 1292-1297.	1.2	52
11	Modelling of the total electronic content and magnetic field anomalies generated by the 2011 Tohoku-Oki tsunami and associated acoustic-gravity waves. Geophysical Journal International, 2012, , no-no.	1.0	46
12	On the Analytical Description of the Topside Ionosphere by NeQuick: Modeling the Scale Height Through COSMIC/FORMOSAT-3 Selected Data. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2020, 13, 1867-1878.	2.3	38
13	Combining ionosonde with ground GPS data for electron density estimation. Journal of Atmospheric and Solar-Terrestrial Physics, 2003, 65, 683-691.	0.6	30
14	Global validation of IRI TEC for high and medium solar activity conditions. Advances in Space Research, 2008, 42, 770-775.	1.2	28
15	Tsunami Wave Height Estimation from GPSâ€Derived Ionospheric Data. Journal of Geophysical Research: Space Physics, 2018, 123, 4329-4348.	0.8	28
16	Tsunami signature in the ionosphere: A simulation of OTH radar observations. Radio Science, 2011, 46, .	0.8	26
17	Global statistical maps of extremeâ€event magnetic observatory 1Âmin first differences in horizontal intensity. Geophysical Research Letters, 2016, 43, 4126-4135.	1.5	26
18	Low and equatorial latitudes topside in NeQuick. Journal of Atmospheric and Solar-Terrestrial Physics, 2008, 70, 901-906.	0.6	25

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19	On the use of NeQuick topside option in IRI-2007. Advances in Space Research, 2009, 43, 1688-1693.	1.2	25
20	NeQuick bottomside analysis at low latitudes. Journal of Atmospheric and Solar-Terrestrial Physics, 2008, 70, 1911-1918.	0.6	21
21	A 2015 International Geomagnetic Reference Field (IGRF) candidate model based on Swarmâ€™s experimental absolute magnetometer vector mode data. Earth, Planets and Space, 2015, 67, .	0.9	17
22	On the link between the topside ionospheric effective scale height and the plasma ambipolar diffusion, theory and preliminary results. Scientific Reports, 2020, 10, 17541.	1.6	17
23	Are models predicting a realistic picture of vertical total electron content?. Radio Science, 2004, 39, n/a-n/a.	0.8	15
24	High-latitude F region large-scale ionospheric irregularities under different solar wind and zenith angle conditions. Advances in Space Research, 2017, 59, 557-570.	1.2	11
25	A model assisted ionospheric electron density reconstruction method based on vertical TEC data ingestion. Annals of Geophysics, 2009, 48, .	0.5	11
26	Low latitude ionospheric effects of major geomagnetic storms observed using TOPEX TEC data. Annales Geophysicae, 2009, 27, 3133-3139.	0.6	11
27	The Geomagnetic Blitz of September 1941. Eos, 2016, 97, .	0.1	10
28	Comparing TOPEX TEC measurements with IRI predictions. Advances in Space Research, 2008, 42, 757-762.	1.2	9
29	IonoSeis: A Package to Model Coseismic Ionospheric Disturbances. Atmosphere, 2019, 10, 443.	1.0	8
30	Locating surface deformation induced by earthquakes using GPS, GLONASS and Galileo ionospheric sounding from a single station. Advances in Space Research, 2021, 68, 3403-3416.	1.2	8
31	Effects of gradients of the electron density on Earth-space communications. Annals of Geophysics, 2009, 47, .	0.5	8
32	Nanosatellite High-Precision Magnetic Missions Enabled by Advances in a Stand-Alone Scalar/Vector Absolute Magnetometer. , 2018, , .		7
33	The IRI topside parameters. Advances in Radio Science, 0, 2, 249-251.	0.7	7
34	Data ingestion and assimilation in ionospheric models. Annals of Geophysics, 2009, 52, .	0.5	6
35	Topside ionosphere and plasmasphere: Use of NeQuick in connection with Gallagher plasmasphere model. Advances in Space Research, 2007, 39, 739-743.	1.2	5
36	Ionospheric topside models compared with experimental electron density profiles. Annals of Geophysics, 2009, 48, .	0.5	3

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37	Correction to â€œAre models predicting a realistic picture of vertical total electron content?â€• Radio Science, 2004, 39, n/a-n/a.	0.8	1
38	Time-stamp correction of magnetic observatory data acquired during unavailability of time-synchronization services. Geoscientific Instrumentation, Methods and Data Systems, 2017, 6, 311-317.	0.6	1
39	Variations of the peak positions in the longitudinal profile of noon-time equatorial electrojet. Earth, Planets and Space, 2020, 72, .	0.9	1
40	A method to ingest GPSâ€TEC into the NeQuick ionospheric model. Radio Science, 2007, 42, .	0.8	0
41	Validation of a method for ionospheric electron density reconstruction by means of vertical incidence data during quiet and storm periods. Annals of Geophysics, 2009, 48, .	0.5	0