

David Altadill

List of Publications by Year in descending order

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83
papers

2,806
citations

279487

23
h-index

182168

51
g-index

91
all docs

91
docs citations

91
times ranked

1863
citing authors

#	ARTICLE	IF	CITATIONS
1	International Reference Ionosphere 2016: From ionospheric climate to real-time weather predictions. <i>Space Weather</i> , 2017, 15, 418-429.	1.3	751
2	The International Reference Ionosphere 2012 – a model of international collaboration. <i>Journal of Space Weather and Space Climate</i> , 2014, 4, A07.	1.1	503
3	Ionospheric behavior over Europe during the solar eclipse of 3 October 2005. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2008, 70, 836-853.	0.6	117
4	Vertical structure of a gravity wave like oscillation in the ionosphere generated by the solar eclipse of August 11, 1999. <i>Journal of Geophysical Research</i> , 2001, 106, 21419-21428.	3.3	84
5	Global empirical models of the density peak height and of the equivalent scale height for quiet conditions. <i>Advances in Space Research</i> , 2013, 52, 1756-1769.	1.2	77
6	Solar activity impact on the Earth's upper atmosphere. <i>Journal of Space Weather and Space Climate</i> , 2013, 3, A06.	1.1	72
7	Time and scale size of planetary wave signatures in the ionospheric region: Role of the geomagnetic activity and mesosphere/lower thermosphere winds. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	69
8	Comparisons of IRI TEC predictions with GPS and digisonde measurements at Ebro. <i>Advances in Space Research</i> , 2007, 39, 841-847.	1.2	69
9	Disturbances of the western European ionosphere during the total solar eclipse of 11 August 1999 measured by a wide ionosonde and radar network. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2001, 63, 915-924.	0.6	60
10	Characteristics of quasi-2-day oscillations in the $\text{E}'\text{of}2\text{at}$ northern middle latitudes. <i>Journal of Geophysical Research</i> , 1995, 100, 12163.	3.3	53
11	Proposal of new models of the bottom-side B0 and B1 parameters for IRI. <i>Advances in Space Research</i> , 2009, 43, 1825-1834.	1.2	52
12	Pilot Ionosonde Network for Identification of Traveling Ionospheric Disturbances. <i>Radio Science</i> , 2018, 53, 365-378.	0.8	41
13	Vertical propagating signatures of wave-type oscillations (2- and 6.5-days) in the ionosphere obtained from electron-density profiles. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2001, 63, 823-834.	0.6	40
14	Vertical and oblique HF sounding with a network of synchronised ionosondes. <i>Advances in Space Research</i> , 2017, 60, 1644-1656.	1.2	35
15	Improvement of IRI B0, B1 and D1 at mid-latitude using MARP. <i>Advances in Space Research</i> , 2007, 39, 701-710.	1.2	30
16	Analysis of the Solar Flare Effects of 6 September 2017 in the Ionosphere and in the Earth's Magnetic Field Using Spherical Elementary Current Systems. <i>Space Weather</i> , 2018, 16, 1709-1720.	1.3	29
17	Feasibility of precise navigation in high and low latitude regions under scintillation conditions. <i>Journal of Space Weather and Space Climate</i> , 2018, 8, A05.	1.1	29
18	Daytime electron density at the F1-region in Europe during geomagnetic storms. <i>Annales Geophysicae</i> , 2002, 20, 1007-1021.	0.6	28

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19	Space weather effects on Earth's environment associated to the 24 th -25 October 2011 geomagnetic storm. <i>Space Weather</i> , 2013, 11, 153-168.	1.3	27
20	Ionospheric peak height behavior for low, middle and high latitudes: A potential empirical model for quiet conditions – Comparison with the IRI-2007 model. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2011, 73, 1810-1817.	0.6	25
21	Climatology characterization of equatorial plasma bubbles using GPS data. <i>Journal of Space Weather and Space Climate</i> , 2017, 7, A3.	1.1	25
22	Diurnal Variation of Gravity Wave Activity at Midlatitudes in the Ionospheric F Region. <i>Studia Geophysica Et Geodaetica</i> , 2003, 47, 579-586.	0.3	24
23	Detection of the wave-like structures in the F-region electron density: Two station measurements. <i>Studia Geophysica Et Geodaetica</i> , 2006, 50, 131-146.	0.3	24
24	Six-day westward propagating wave in the maximum electron density of the ionosphere. <i>Annales Geophysicae</i> , 2003, 21, 1577-1588.	0.6	22
25	Remote Geophysical Observatory in Antarctica with HF Data Transmission: A Review. <i>Remote Sensing</i> , 2014, 6, 7233-7259.	1.8	21
26	An overview of methodologies for real-time detection, characterisation and tracking of traveling ionospheric disturbances developed in the TechTIDE project. <i>Journal of Space Weather and Space Climate</i> , 2020, 10, 42.	1.1	21
27	Narrowband and Wideband Channel Sounding of an Antarctica to Spain Ionospheric Radio Link. <i>Remote Sensing</i> , 2015, 7, 11712-11730.	1.8	20
28	November 2003 event: effects on the Earth's ionosphere observed from ground-based ionosonde and GPS data. <i>Annales Geophysicae</i> , 2005, 23, 3027-3034.	0.6	19
29	Long-term comparison of the ionospheric F2 layer electron density peak derived from ionosonde data and Formosat-3/COSMIC occultations. <i>Journal of Space Weather and Space Climate</i> , 2015, 5, A21.	1.1	19
30	A method for real-time identification and tracking of traveling ionospheric disturbances using ionosonde data: first results. <i>Journal of Space Weather and Space Climate</i> , 2020, 10, 2.	1.1	19
31	Experimental evidence for the role of the neutral wind in the development of ionospheric storms in midlatitudes. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	18
32	Improved characterization and modeling of equatorial plasma depletions. <i>Journal of Space Weather and Space Climate</i> , 2018, 8, A38.	1.1	18
33	First observation of quasi-2-day oscillations in ionospheric plasma frequency at fixed heights. <i>Annales Geophysicae</i> , 1998, 16, 609-617.	0.6	17
34	Vertical development of the 2-day wave in the midlatitude ionospheric F region. <i>Journal of Geophysical Research</i> , 1998, 103, 29199-29206.	3.3	17
35	The 22-year cycle in the geomagnetic 27-day recurrences reflecting on the F2-layer ionization. <i>Annales Geophysicae</i> , 2004, 22, 1171-1176.	0.6	17
36	Vertical and oblique ionospheric soundings over a very long multihop HF radio link from polar to midlatitudes: Results and relationships. <i>Radio Science</i> , 2009, 44, .	0.8	17

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37	Planetary wave type oscillations in the ionospheric F region. <i>Advances in Space Research</i> , 2000, 26, 1287-1296.	1.2	16
38	Physical Layer Definition for a Long-Haul HF Antarctica to Spain Radio Link. <i>Remote Sensing</i> , 2016, 8, 380.	1.8	16
39	Some seasonal hemispheric similarities in \mathcal{A}' of F2 quasi-2-day oscillations. <i>Journal of Geophysical Research</i> , 1997, 102, 9737-9739.	3.3	15
40	Time/altitude electron density variability above Ebro, Spain. <i>Advances in Space Research</i> , 2007, 39, 962-969.	1.2	15
41	Solar activity variations of ionosonde measurements and modeling results. <i>Advances in Space Research</i> , 2008, 42, 610-616.	1.2	15
42	Midlatitude F region peak height changes in response to interplanetary magnetic field conditions and modeling results. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	13
43	Origin and development of vertical propagating oscillations with periods of planetary waves in the ionospheric F region. <i>Physics and Chemistry of the Earth, Part C: Solar, Terrestrial and Planetary Science</i> , 2001, 26, 387-393.	0.2	12
44	An inspection of the long-term behaviour of the range of the daily geomagnetic field variation from comprehensive modelling. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2009, 71, 1497-1510.	0.6	12
45	On the 18-day quasi-periodic oscillation in the ionosphere. <i>Annales Geophysicae</i> , 1996, 14, 716-724.	0.6	11
46	Precise Radar Range Measurements with Digisondes. <i>AIP Conference Proceedings</i> , 2008, , .	0.3	11
47	Remote Sensing and Skywave Digital Communication from Antarctica. <i>Sensors</i> , 2009, 9, 10136-10157.	2.1	11
48	Vertical and oblique ionospheric soundings over the long haul HF link between Antarctica and Spain. <i>Radio Science</i> , 2015, 50, 916-930.	0.8	11
49	The 11.08.1999 solar eclipse and the ionosphere: a search for the distant bow-wave. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2001, 63, 925-930.	0.6	10
50	Comparison of true-height electron density profiles derived by POLAN and NHPC methods. <i>Studia Geophysica Et Geodaetica</i> , 2007, 51, 449-459.	0.3	10
51	F-region vertical drift measurements at Ebro, Spain. <i>Advances in Space Research</i> , 2007, 39, 691-698.	1.2	8
52	Behavior of the equivalent slab thickness over three European stations. <i>Advances in Space Research</i> , 2013, 51, 677-682.	1.2	8
53	Predicted and measured bottomside F-region electron density and variability of the D1 parameter under quiet and disturbed conditions over Europe. <i>Advances in Space Research</i> , 2004, 34, 1973-1981.	1.2	7
54	Validation of GPS Ionospheric Radio Occultation results onboard CHAMP by Vertical Sounding Observations in Europe. , 2005, , 447-452.		7

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55	An analysis of the scale height at the F 2-layer peak over three middle-latitude stations in the European sector. <i>Earth, Planets and Space</i> , 2012, 64, 493-503.	0.9	7
56	Improved modelling of ionospheric disturbances for remote sensing and navigation. , 2017, , .		7
57	Spectral energy contributions of quasi-periodic oscillations (2â€“35 days) to the variability of the. <i>Annales Geophysicae</i> , 1998, 16, 168.	0.6	7
58	Ionospheric Tilt Measurements: Application to Traveling Ionospheric Disturbances Climatology Study. <i>Radio Science</i> , 2020, 55, e2019RS007012.	0.8	6
59	Planetary and gravity wave signatures in the F-region ionosphere with impact on radio propagation predictions and variability. <i>Annals of Geophysics</i> , 2009, 47, .	0.5	6
60	Behavior of the scale height at the F2 layer peak derived from Digisonde measurements at two European stations. <i>Advances in Space Research</i> , 2007, 39, 755-758.	1.2	5
61	Instantaneous mapping of ionospheric characteristics using 5-minute measurements for the day of the total solar eclipse of 11 August 1999. <i>Physics and Chemistry of the Earth, Part C: Solar, Terrestrial and Planetary Science</i> , 2001, 26, 335-339.	0.2	4
62	Upper ionosphere variability over Alma-Ata and Observatorio Del Ebro using the f_oF_2 data obtained during the winter/spring period of 2003â€“2004. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2007, 69, 2452-2464.	0.6	4
63	â€œSWINGâ€• A European project for a new application of an ionospheric network. <i>Radio Science</i> , 2016, 51, 421-428.	0.8	4
64	Oblique Ionograms Automatic Scaling Algorithm OIASA application to the ionograms recorded by Ebro observatory ionosonde. <i>Journal of Space Weather and Space Climate</i> , 2018, 8, A10.	1.1	4
65	Climate of the upper atmosphere. <i>Annals of Geophysics</i> , 2009, 52, .	0.5	4
66	From COST 271 to 296 EU actions on ionospheric monitoring and modelling for terrestrial and Earthâ€“space radio systems. <i>Advances in Space Research</i> , 2007, 39, 899-903.	1.2	3
67	The Ebro observatory â€“ Its path to ionospheric research. <i>Advances in Space Research</i> , 2007, 39, 941-946.	1.2	3
68	Electric conductivity and electric field in the stratosphere: Middle-latitude balloon flight results. <i>Journal of Geophysical Research</i> , 2001, 106, 21337-21342.	3.3	2
69	An Antarctica to Spain HF link: oblique sounding results. , 2006, , .		2
70	A comparison of the LPIM-COSMIC F2 peak parameters determinations against the IRI(CCIR). <i>Advances in Space Research</i> , 2015, 55, 2012-2019.	1.2	2
71	Variation of Ionospheric Narrowband and Wideband Performance for a 12,760 km Transequatorial Link and Its Dependence on Solar and Ionospheric Activity. <i>Remote Sensing</i> , 2020, 12, 2750.	1.8	2
72	Detection of Solar Flares from the Analysis of Signal-to-Noise Ratio Recorded by Digisonde at Mid-Latitudes. <i>Remote Sensing</i> , 2022, 14, 1898.	1.8	2

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73	Service of rapid magnetic variations, an update. <i>Geoscience Data Journal</i> , 2023, 10, 99-113.	1.8	2
74	Planetary wave type oscillations in the ionospheric F region. <i>Advances in Space Research</i> , 1999, 24, 1583-1590.	1.2	1
75	Plasmaspheric Electron Content contribution inferred from ground and radio occultation derived Total Electron Content. , 2012, , .		1
76	Correction Notice to: Feasibility of precise navigation in high and low latitude regions under scintillation conditions. <i>Journal of Space Weather and Space Climate</i> , 2018, 8, A21.	1.1	1
77	Improving Signal-to-Noise Ratio in Oblique Ionosonde Soundings Using New Hardware Capability of the DPS4D Ionosonde. , 2018, , .		1
78	TechTIDE: Warning and Mitigation Technologies for Travelling Ionospheric Disturbances Effects. , 2019, , .		1
79	Persistence of Quasi-2-Day Oscillations in the Geomagnetic Activity Indices (an, as, am).. <i>Journal of Geomagnetism and Geoelectricity</i> , 1996, 48, 1233-1239.	0.8	1
80	Ionospheric measurements during the CRISTA/MAHRSI campaign: their implications and comparison with previous campaigns. <i>Annales Geophysicae</i> , 1999, 17, 1040-1052.	0.6	0
81	The contribution to IHY from the COST296 Action MIERS: Mitigation of Ionospheric Effects on Radio Systems. <i>Earth, Moon and Planets</i> , 2009, 104, 63-67.	0.3	0
82	Vertical and oblique ionospheric soundings performance comparison over the 12,760 km transequatorial HF link between Antarctica and Spain. <i>Radio Science</i> , 2017, 52, 498-510.	0.8	0
83	Evaluation of the Ionospheric F2 Characteristics Inferred from Radio Occultations Exploiting the Availability of FORMOSAT-3/COSMIC Data Over Half a Solar Cycle. , 0, , .		0