Paulo R Fagundes

List of Publications by Year
in descending order

109	2,671	159358	243296
papers	citations	30 h-index	44 g-index

110	110	110	1187
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Ionospheric GPS-TEC responses from equatorial region to the EIA crest in the South American sector under intense space weather conditions. Journal of Atmospheric and Solar-Terrestrial Physics, 2022, 227, 105801.	0.6	1
2	Ground and satellite-based observations of ionospheric plasma bubbles and blobs at 5.65Â° latitude in the Brazilian sector. Advances in Space Research, 2021, 67, 2416-2438.	1.2	5
3	Longitudinal variations of the occurrence of F3 and F4 layers within the southern EIA and their dependence on solar cycle. Advances in Space Research, 2021, 69, 59-59.	1.2	0
4	New Findings of the Sporadic E (Es) Layer Development Around the Magnetic Equator During a Highâ€Speed Solar (HSS) Wind Stream Event. Journal of Geophysical Research: Space Physics, 2021, 126, e2021JA029416.	0.8	7
5	Possible Relationship of Meteor Disintegration in the Mesosphere and Enhancement of Sodium Atoms: A Case Study on July 05, 2013. Advances in Space Research, 2021, , .	1.2	0
6	Morphological Features of Ionospheric Scintillations During High Solar Activity Using GPS Observations Over the South American Sector. Journal of Geophysical Research: Space Physics, 2020, 125, .	0.8	7
7	On the role of tidal winds in the descending of the high type of sporadic layer (Es). Advances in Space Research, 2020, 65, 2131-2147.	1.2	8
8	Daily and Monthly Variations of the Equatorial Ionization Anomaly (EIA) Over the Brazilian Sector During the Descending Phase of the Solar Cycle 24. Journal of Geophysical Research: Space Physics, 2020, 125, e2020JA027906.	0.8	5
9	Nocturnal and Seasonal Variation of Na and K Layers Simultaneously Observed in the MLT Region at 23Â°S. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027164.	0.8	7
10	Ionospheric disturbances in a large area of the terrestrial globe by two strong solar flares of September 6, 2017, the strongest space weather events in the last decade. Advances in Space Research, 2020, 66, 1775-1791.	1.2	9
11	Superfountain Effect Linked With 17 March 2015 Geomagnetic Storm Manifesting Distinct F 3 Layer. Journal of Geophysical Research: Space Physics, 2019, 124, 6127-6137.	0.8	10
12	Equatorial and low-latitude positive ionospheric phases due to moderate geomagnetic storm during high solar activity in January 2013. Advances in Space Research, 2019, 64, 995-1010.	1.2	7
13	Effects of X2-class solar flare events on ionospheric GPS-TEC and radio waves over Brazilian sector. Advances in Space Research, 2019, 63, 3586-3605.	1.2	9
14	Occurrence and Modeling Examination of Sporadicâ€E Layers in the Region of the South America (Atlantic) Magnetic Anomaly. Journal of Geophysical Research: Space Physics, 2019, 124, 9676-9694.	0.8	13
15	Study of the F3 and StF4 Layers at TucumÃ¡n Near the Southern Crest of the Equatorial Ionization Anomaly in Western South America. Journal of Geophysical Research: Space Physics, 2018, 123, 2156-2167.	0.8	8
16	The Embrace Magnetometer Network for South America: First Scientific Results. Radio Science, 2018, 53, 379-393.	0.8	12
17	Bottom side profiles for two close stations at the southern crest of the EIA: Differences and comparison with IRI-2012 and NeQuick2 for low and high solar activity. Advances in Space Research, 2018, 61, 295-315.	1.2	10
18	Multi-scale ionospheric irregularities occurrence over South America during the St. Patrick's day storm on March 17, 2015. Journal of Atmospheric and Solar-Terrestrial Physics, 2018, 174, 32-45.	0.6	6

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19	The Embrace Magnetometer Network for South America: Network Description and Its Qualification. Radio Science, 2018, 53, 288-302.	0.8	21
20	First Report on Seismogenic Magnetic Disturbances over Brazilian Sector. Pure and Applied Geophysics, 2017, 174, 737-745.	0.8	4
21	Total electron content disturbances during minor sudden stratospheric warming, over the Brazilian region: A case study during January 2012. Journal of Geophysical Research: Space Physics, 2017, 122, 2119-2135.	0.8	18
22	Ionospheric F-region observations over American sector during an intense space weather event using multi-instruments. Journal of Atmospheric and Solar-Terrestrial Physics, 2017, 156, 1-14.	0.6	21
23	Automatic scaling of critical frequency foF2 from ionograms recorded at SÃ£o JosÃ© dos Campos, Brazil: a comparison between Autoscala and UDIDA tools. Acta Geophysica, 2017, 65, 173-187.	1.0	8
24	Observed effects in the equatorial and low-latitude ionosphere in the South American and African sectors during the 2012 minor sudden stratospheric warming. Journal of Atmospheric and Solar-Terrestrial Physics, 2017, 157-158, 78-89.	0.6	10
25	Electrodynamic disturbances in the Brazilian equatorial and lowâ€latitude ionosphere on St. Patrick's Day storm of 17 March 2015. Journal of Geophysical Research: Space Physics, 2017, 122, 4553-4570.	0.8	57
26	Ionospheric response to the 2006 sudden stratospheric warming event over the equatorial and low latitudes in the Brazilian sector using GPS observations. Journal of Atmospheric and Solar-Terrestrial Physics, 2017, 154, 92-103.	0.6	10
27	An Investigation of the Ionospheric Disturbances Due to the 2014 Sudden Stratospheric Warming Events Over Brazilian Sector. Journal of Geophysical Research: Space Physics, 2017, 122, 11,698.	0.8	15
28	Equinoctial spread-F occurrence at low latitudes in different longitude sectors under moderate and high solar activity. Journal of Atmospheric and Solar-Terrestrial Physics, 2017, 164, 149-162.	0.6	8
29	Seasonal and solar activity variations of F₃ layer and quadruple stratification (StFâ€4) near the equatorial region. Journal of Geophysical Research: Space Physics, 2016, 121, 12,116.	0.8	12
30	Bottom-side profile parameters (B0, B1) characteristics over the Brazilian equatorial and low latitudes and their comparison with different options in the IRI-2012 model during the 24th solar minimum (2010â€“2011). Journal of Atmospheric and Solar-Terrestrial Physics, 2016, 146, 16-27.	0.6	5
31	Unusual noon-time bite-outs in the ionospheric electron density around the anomaly crest locations over the Indian and Brazilian sectors during quiet conditions â€“ A case study. Journal of Atmospheric and Solar-Terrestrial Physics, 2016, 147, 126-137.	0.6	10
32	Positive and negative GPSâ€TEC ionospheric storm effects during the extreme space weather event of March 2015 over the Brazilian sector. Journal of Geophysical Research: Space Physics, 2016, 121, 5613-5625.	0.8	109
33	Effects of the intense geomagnetic storm of Septemberâ€“October 2012 on the equatorial, low- and mid-latitude F region in the American and African sector during the unusual 24th solar cycle. Journal of Atmospheric and Solar-Terrestrial Physics, 2016, 138-139, 93-105.	0.6	22
34	Ionospheric response to the 2009 sudden stratospheric warming over the equatorial, low, and middle latitudes in the South American sector. Journal of Geophysical Research: Space Physics, 2015, 120, 7889-7902.	0.8	42
35	Dayâ€toâ€day variability of equatorial electrojet and its role on the dayâ€toâ€day characteristics of the equatorial ionization anomaly over the Indian and Brazilian sectors. Journal of Geophysical Research: Space Physics, 2015, 120, 9117-9131.	0.8	47
36	Automatically identification of Equatorial Spread-F occurrence on ionograms. Journal of Atmospheric and Solar-Terrestrial Physics, 2015, 135, 118-125.	0.6	11

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37	Observations of ionospheric F layer quadruple stratification near equatorial region. Journal of Geophysical Research: Space Physics, 2015, 120, 834-840.	0.8	10
38	THE INITIAL STEPS FOR DEVELOPING THE SOUTH AMERICAN K INDEX FROM THE EMBRACE MAGNETOMETER NETWORK. Revista Brasileira De Geofisica, 2015, 33, 79.	0.2	13
39	The role of the traveling planetary wave ionospheric disturbances on the equatorial F region post-sunset height rise during the last extreme low solar activity and comparison with high solar activity. Journal of Atmospheric and Solar-Terrestrial Physics, 2014, 113, 47-57.	0.6	13
40	Unusual nighttime impulsive foF2 enhancements at low latitudes: Phenomenology and possible explanations. Advances in Space Research, 2014, 54, 369-384.	1.2	2
41	Assessment of IRI-2012 profile parameters by comparison with the ones inferred using NeQuick2, ionosonde and FORMOSAT-1 data during the high solar activity over Brazilian equatorial and low latitude sector. Journal of Atmospheric and Solar-Terrestrial Physics, 2014, 121, 10-23.	0.6	16
42	Investigation of ionospheric response to two moderate geomagnetic storms using GPSâ€“TEC measurements in the South American and African sectors during the ascending phase of solar cycle 24. Advances in Space Research, 2014, 53, 1313-1328.	1.2	46
43	Traveling planetary wave ionospheric disturbances and their role in the generation of equatorial spread-F and GPS phase fluctuations during the last extreme low solar activity and comparison with high solar activity. Journal of Atmospheric and Solar-Terrestrial Physics, 2014, 117, 7-19.	0.6	12
44	On the performance of the IRIâ€2012 and NeQuick2 models during the increasing phase of the unusual 24th solar cycle in the Brazilian equatorial and lowâ€latitude sectors. Journal of Geophysical Research: Space Physics, 2014, 119, 5087-5105.	0.8	41
45	A computational tool for ionosonde CADI's ionogram analysis. Computers and Geosciences, 2013, 52, 372-378.	2.0	22
46	Response of equatorial, low- and mid-latitude F-region in the American sector during the intense geomagnetic storm on 24â€“25 October 2011. Advances in Space Research, 2013, 52, 147-157.	1.2	19
47	Multifractal analysis of vertical total electron content (VTEC) at equatorial region and low latitude, during low solar activity. Annales Geophysicae, 2013, 31, 127-133.	0.6	11
48	Low-latitude equinoctial spread-F occurrence at different longitude sectors under low solar activity. Annales Geophysicae, 2013, 31, 153-162.	0.6	18
49	The South American K Index: Initial Steps from the Embrace Magnetometer Network. , 2013, , .		5
50	Equatorial F 2-layer variations: Comparison between F 2 peak parameters at Ouagadougou with the IRI-2007 model. Earth, Planets and Space, 2012, 64, 553-566.	0.9	16
51	Effects observed in the equatorial and low latitude ionospheric F-region in the Brazilian sector during low solar activity geomagnetic storms and comparison with the COSMIC measurements. Advances in Space Research, 2012, 50, 1344-1351.	1.2	11
52	Atypical nighttime spreadâ€F structure observed near the southern crest of the ionospheric equatorial ionization anomaly. Journal of Geophysical Research, 2012, 117, .	3.3	5
53	The global thermospheric and ionospheric response to the 2008 minor sudden stratospheric warming event. Journal of Geophysical Research, 2012, 117, .	3.3	50
54	Ionospheric response of equatorial and low latitude F-region during the intense geomagnetic storm on 24â€“25 August 2005. Advances in Space Research, 2012, 49, 518-529.	1.2	21

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55	Long-term study of medium-scale traveling ionospheric disturbances using O I 630 nm all-sky imaging and ionosonde over Brazilian low latitudes. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	43
56	Numerical modeling of ionospheric effects in the middleâ€•and lowâ€latitude F region during geomagnetic storm sequence of 9â€“14 September 2005. Radio Science, 2011, 46, .	0.8	76
57	Unusual nighttime impulsivefoF2 enhancement below the southern anomaly crest under geomagnetically quiet conditions. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	25
58	Studies of ionospheric F-region response in the Latin American sector during the geomagnetic storm of 21â€“22 January 2005. Annales Geophysicae, 2011, 29, 919-929.	0.6	26
59	An investigation of ionospheric F region response in the Brazilian sector to the super geomagnetic storm of May 2005. Advances in Space Research, 2011, 48, 1211-1220.	1.2	24
60	F-region ionospheric parameters observed in the equatorial and low latitude regions during medium solar activity in the Brazilian sector and comparison with the IRI-2007 model results. Advances in Space Research, 2011, 47, 718-728.	1.2	19
61	Seasonal and solar cycle dependence of F3-layer near the southern crest of the equatorial ionospheric anomaly. Advances in Space Research, 2011, 48, 472-477.	1.2	19
62	Dependence of the F-region peak electron density (foF2) on solar activity observed in the equatorial ionospheric anomaly region in the Brazilian sector. Advances in Space Research, 2011, 48, 837-841.	1.2	4
63	Equatorial spread-F occurrence observed at two near equatorial stations in the Brazilian sector and its occurrence modulated by planetary waves. Journal of Atmospheric and Solar-Terrestrial Physics, 2011, 73, 457-463.	0.6	16
64	Effects observed in the ionospheric F-region in the South American sector during the intense geomagnetic storm of 14 December 2006. Advances in Space Research, 2010, 46, 909-920.	1.2	31
65	Thermospheric Meridional Wind Control on Equatorial Scintillations and the Role of the Evening F-Region Height Rise, EÂÃ—ÂB Drift Velocities and F2-Peak Density Gradients. Surveys in Geophysics, 2010, 31, 509-530.	2.1	15
66	Response of the ionospheric F-region in the Brazilian sector during the super geomagnetic storm in April 2000 observed by GPS. Advances in Space Research, 2010, 45, 1322-1329.	1.2	32
67	Hemispheric asymmetries in the ionospheric response observed in the American sector during an intense geomagnetic storm. Journal of Geophysical Research, 2010, 115, .	3.3	36
68	Observations of the F-region ionospheric irregularities in the South American sector during the October 2003 "Halloween Storms". Annales Geophysicae, 2009, 27, 4463-4477.	0.6	24
69	On the production of traveling ionospheric disturbances by atmospheric gravity waves. Journal of Atmospheric and Solar-Terrestrial Physics, 2009, 71, 2013-2016.	0.6	23
70	Statistical analysis of the total electron content observed at 23Â°S in the Brazilian sector. Advances in Space Research, 2009, 44, 385-394.	1.2	10
71	Effects observed in the Latin American sector ionospheric F region during the intense geomagnetic disturbances in the early part of November 2004. Journal of Geophysical Research, 2009, 114, .	3.3	23
72	F layer postsunset height rise due to electric field prereversal enhancement: 1. Traveling planetary wave ionospheric disturbance effects. Journal of Geophysical Research, 2009, 114, .	3.3	20

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73	F layer postsunset height rise due to electric field prereversal enhancement: 2. Traveling planetary wave ionospheric disturbances and their role on the generation of equatorial spread F. Journal of Geophysical Research, 2009, 114, .	3.3	23
74	Effects observed in the ionospheric F region in the east Asian sector during the intense geomagnetic disturbances in the early part of November 2004. Journal of Geophysical Research, 2009, 114, .	3.3	26
75	Observations of GW/TID oscillations in the F2 layer at low latitude during high and low solar activity, geomagnetic quiet and disturbed periods. Journal of Geophysical Research, 2009, 114, .	3.3	41
76	Dayâ€toâ€day variability in the development of plasma bubbles associated with geomagnetic disturbances. Journal of Geophysical Research, 2009, 114, .	3.3	16
77	Nighttime ionosphereâ€“thermosphere coupling observed during an intense geomagnetic storm. Advances in Space Research, 2008, 41, 539-547.	1.2	10
78	Nighttime thermospheric meridional neutral winds inferred from ionospheric hâ€²F and hpF2 data. Advances in Space Research, 2008, 41, 599-610.	1.2	6
79	Thermospheric dark band structures observed in allâ€sky OI 630 nm emission images over the Brazilian lowâ€latitude sector. Journal of Geophysical Research, 2008, 113, .	3.3	39
80	The formation of F3-layer and the observation of gravity waves during solar maximum and minimum. , 2007, , .		0
81	Response of the equatorial ionosphere at dusk to penetration electric fields during intense magnetic storms. Journal of Geophysical Research, 2007, 112, .	3.3	122
82	Unusual ionospheric effects observed during the intense 28 October 2003 solar flare in the Brazilian sector. Annales Geophysicae, 2007, 25, 2497-2502.	0.6	26
83	The ionospheric response in the Brazilian sector during the super geomagnetic storm on 20 November 2003. Annales Geophysicae, 2007, 25, 863-873.	0.6	30
84	LION: A dynamic computer model for the low-latitude ionosphere. Annales Geophysicae, 2007, 25, 2371-2392.	0.6	18
85	Response of nighttime equatorial and low latitude F-region to the geomagnetic storm of August 18, 2003, in the Brazilian sector. Advances in Space Research, 2007, 39, 1325-1334.	1.2	26
86	Observations of daytime F2-layer stratification under the southern crest of the equatorial ionization anomaly region. Journal of Geophysical Research, 2007, 112, n/a-n/a.	3.3	49
87	IRI-2001 model predictions compared with ionospheric data observed at Brazilian low latitude stations. Annales Geophysicae, 2006, 24, 2191-2200.	0.6	48
88	Observations and modeling of post-midnight uplifts near the magnetic equator. Annales Geophysicae, 2006, 24, 1317-1331.	0.6	49
89	Intermittency analysis of geomagnetic storm time-series observed in Brazil. Journal of Atmospheric and Solar-Terrestrial Physics, 2005, 67, 1365-1372.	0.6	21
90	Observations ofFlayer electron density profiles modulated by planetary wave type oscillations in the equatorial ionospheric anomaly region. Journal of Geophysical Research, 2005, 110, .	3.3	54

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91	Effects of the major geomagnetic storms of October 2003 on the equatorial and low-latitudeFregion in two longitudinal sectors. Journal of Geophysical Research, 2005, 110, .	3.3	65
92	Longitudinal differences observed in the ionospheric F-region during the major geomagnetic storm of 31 March 2001. Annales Geophysicae, 2004, 22, 3221-3229.	0.6	21
93	Response of the equatorial and low-latitude ionosphere during the space weather events of April 2002. Annales Geophysicae, 2004, 22, 3211-3219.	0.6	27
94	Geomagnetic storm and equatorial spread-F. Annales Geophysicae, 2004, 22, 3231-3239.	0.6	48
95	Generation of large-scale equatorial F-region plasma depletions during lowrange spread-F season. Annales Geophysicae, 2004, 22, 15-23.	0.6	31
96	Height-resolved ionospheric drifts at low latitudes from simultaneous OI 777.4 nm and OI 630.0 nm imaging observations. Journal of Geophysical Research, 2004, 109, .	3.3	30
97	Ionospheric plasma bubble zonal drifts over the tropical region: a study using OI emission all-sky images. Journal of Atmospheric and Solar-Terrestrial Physics, 2003, 65, 1117-1126.	0.6	56
98	Equatorial F-region plasma depletion drifts: latitudinal and seasonal variations. Annales Geophysicae, 2003, 21, 2315-2322.	0.6	46
99	Observations of equatorialFregion plasma bubbles using simultaneous OI 777.4 nm and OI 630.0 nm imaging: New results. Journal of Geophysical Research, 2001, 106, 30331-30336.	3.3	36
100	Thermospheric zonal temperature gradients observed at low latitudes. Annales Geophysicae, 2001, 19, 1133-1139.	0.6	4
101	Relevant aspects of equatorial plasma bubbles under different solar activity conditions. Advances in Space Research, 2001, 27, 1213-1218.	1.2	32
102	Ionospheric plasma bubble zonal drift: a methodology using OI 630 nm all-sky imaging systems. Advances in Space Research, 2001, 27, 1219-1224.	1.2	52
103	Transequatorial F-region ionospheric plasma bubbles: solar cycle effects. Journal of Atmospheric and Solar-Terrestrial Physics, 2000, 62, 1377-1383.	0.6	117
104	Solar cycle effects on large scale equatorial F-region plasma depletions. Advances in Space Research, 1999, 24, 1477-1480.	1.2	22
105	Observations of day-to-day variability in precursor signatures to equatorial F-region plasma depletions. Annales Geophysicae, 1999, 17, 1053-1063.	0.6	44
106	Occurrence of large scale equatorial F-region plasma depletions during geo-magnetic disturbances. Journal of Atmospheric and Solar-Terrestrial Physics, 1998, 60, 1593-1604.	0.6	30
107	Simultaneous observations of equatorial F-region plasma depletions and thermospheric winds. Journal of Atmospheric and Solar-Terrestrial Physics, 1997, 59, 1049-1059.	0.6	16
108	Relationship between generation of equatorial F-region plasma bubbles and thermospheric dynamics. Advances in Space Research, 1995, 16, 117-120.	1.2	10

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109	Observations of thermospheric neutral winds at 23Â°S. Planetary and Space Science, 1992, 40, 767-773.	0.9	29