Tulasiram Sudarsanam

List of Publications by Year
in descending order

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66 papers	1,607 citations	257101 24 h-index	315357 38 g-index
66 all docs	66 docs citations	66 times ranked	1202 citing authors

#	Article	IF	Citations
1	Large Geomagnetically Induced Currents at Equator Caused by an Interplanetary Magnetic Cloud. Space Weather, 2022, 20, .	1.3	3
2	Diurnal UT Variation of Low Latitude Geomagnetic Storms Using Six Indices. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA028854.	0.8	6
3	An aided Abel inversion technique assisted by artificial neural network-based background ionospheric model for near real-time correction of FORMOSAT-7/COSMIC-2 data. Advances in Space Research, 2021, 68, 2865-2875.	1.2	5
4	A few important features of global atmospheric boundary layer heights estimated using COSMIC radio occultation retrieved data. Indian Journal of Physics, 2020, 94, 555-563.	0.9	8
5	Ionospheric responses to the 21 August 2017 great American solar eclipse â€“ A multi-instrument study. Advances in Space Research, 2020, 65, 74-85.	1.2	5
6	Effects of IMF By on Ring Current Asymmetry Under Southward IMF Bz Conditions Observed at Ground Magnetic Stations: Case Studies. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027493.	0.8	6
7	On the Seeding of Periodic Equatorial Plasma Bubbles by Gravity Waves Associated With Tropical Cyclone: A Case Study. Journal of Geophysical Research: Space Physics, 2020, 125, e2020JA028003.	0.8	8
8	The Solar Wind Density Control on the Prompt Penetration Electric Field and Equatorial Electrojet. Journal of Geophysical Research: Space Physics, 2020, 125, e2020JA027869.	0.8	9
9	Dilatory and Downward Development of 3â€m Scale Irregularities in the Funnelâ€Like Region of a Rapidly Rising Equatorial Plasma Bubble. Geophysical Research Letters, 2020, 47, e2020GL087256.	1.5	5
10	Modeling of Ionospheric Responses to Atmospheric Acoustic and Gravity Waves Driven by the 2015 Nepal 7.8 Gorkha Earthquake. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027200.	0.8	12
11	Variation of the Equatorial Height Anomaly During the Main Phase of 2015 St. Patrick's Day Geomagnetic Storm Using ANNIM and TIEGCM. Journal of Geophysical Research: Space Physics, 2019, 124, 7072-7085.	0.8	1
12	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
13	IpsDst of Dst Storms Applied to Ionosphereâ€Thermosphere Storms and Lowâ€Latitude Aurora. Journal of Geophysical Research: Space Physics, 2019, 124, 9552-9565.	0.8	6
14	A New Artificial Neural Networkâ€Based Global Threeâ€Dimensional Ionospheric Model (ANNIMâ€3D) Using Longâ€Term Ionospheric Observations: Preliminary Results. Journal of Geophysical Research: Space Physics, 2019, 124, 4639-4657.	0.8	21
15	Signatures of substorm related overshielding electric field at equatorial latitudes under steady southward IMF Bz during main phase of magnetic storm. Advances in Space Research, 2019, 64, 1975-1988.	1.2	6
16	Three Different Episodes of Prompt Equatorial Electric Field Perturbations Under Steady Southward IMF Bz During St. Patrick's Day Storm. Journal of Geophysical Research: Space Physics, 2019, 124, 10428-10443.	0.8	14
17	Capability of Geomagnetic Storm Parameters to Identify Severe Space Weather. Astrophysical Journal, 2019, 887, 51.	1.6	11
18	A complete solar cycle (2006â€“2016) studies of scale heights derived using COSMIC radio occultation retrieved electron density profiles. Journal of Atmospheric and Solar-Terrestrial Physics, 2019, 182, 101-118.	0.6	3

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19	Rare observation of daytime whistlers at very low latitude (L = 1.08). Advances in Space Research, 2018, 61, 1909-1918.	1.2	3
20	Unseasonal development of post-sunset F-region irregularities over Southeast Asia on 28 July 2014: 2. Forcing from below?. Progress in Earth and Planetary Science, 2018, 5, .	1.1	7
21	The Improved Twoâ€Dimensional Artificial Neural Networkâ€Based Ionospheric Model (ANNIM). Journal of Geophysical Research: Space Physics, 2018, 123, 5807-5820.	0.8	35
22	Unseasonal development of post-sunset F-region irregularities over Southeast Asia on 28 July 2014: 1. Forcing from above?. Progress in Earth and Planetary Science, 2018, 5, .	1.1	13
23	Vertical rise velocity of equatorial plasma bubbles estimated from Equatorial Atmosphere Radar (EAR) observations and HIRB model simulations. Journal of Geophysical Research: Space Physics, 2017, 122, 6584-6594.	0.8	18
24	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
25	A scheme for forecasting severe space weather. Journal of Geophysical Research: Space Physics, 2017, 122, 2824-2835.	0.8	28
26	Ionospheric winter anomaly and annual anomaly observed from Formosat-3/COSMIC Radio Occultation observations during the ascending phase of solar cycle 24. Advances in Space Research, 2017, 60, 1585-1593.	1.2	28
27	Ionospheric annual anomalyâ€”New insights to the physical mechanisms. Journal of Geophysical Research: Space Physics, 2017, 122, 8816-8830.	0.8	22
28	Automatic selection of Dst storms and their seasonal variations in two versions of Dst in 50Âyears. Earth, Planets and Space, 2017, 69, .	0.9	11
29	An Artificial Neural Networkâ€Based Ionospheric Model to Predict N_mF₂ and h_mF₂ Using Longâ€Term Data Set of FORMOSATâ€3/COSMIC Radio Occultation Observations: Preliminary Results. Journal of Geophysical Research: Space Physics,	0.8	29
30	Coseismic Traveling Ionospheric Disturbances during the M_w 7.8 Gorkha, Nepal, Earthquake on 25 April 2015 From Ground and Spaceborne Observations. Journal of Geophysical Research: Space Physics, 2017, 122, 10,669.	0.8	16
31	On the fresh development of equatorial plasma bubbles around the midnight hours of June solstice. Journal of Geophysical Research: Space Physics, 2016, 121, 9051-9062.	0.8	40
32	Altitude development of postmidnight F region fieldâ€aligned irregularities observed using Equatorial Atmosphere Radar in Indonesia. Geophysical Research Letters, 2016, 43, 1015-1022.	1.5	24
33	Duskside enhancement of equatorial zonal electric field response to convection electric fields during the St. Patrick's Day storm on 17 March 2015. Journal of Geophysical Research: Space Physics, 2016, 121, 538-548.	0.8	88
34	A new parameter of geomagnetic storms for the severity of space weather. Geoscience Letters, 2016, 3, .	1.3	16
35	Ionospheric electron density profiling and modeling of COSMIC follow-on simulations. Journal of Geodesy, 2016, 90, 129-142.	1.6	2
36	Possible relationship between the equatorial electrojet (EEJ) and daytime vertical E Ã— B drift velocities in F region from ROCSAT observations. Advances in Space Research, 2016, 58, 1168-1176.	1.2	15

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37	A self-contained GIM-aided Abel retrieval method to improve GNSS-Radio Occultation retrieved electron density profiles. GPS Solutions, 2016, 20, 825-836.	2.2	17
38	Fresh and evolutionaryâ€type fieldâ€aligned irregularities generated near sunrise terminator due to overshielding electric fields. Journal of Geophysical Research: Space Physics, 2015, 120, 5922-5930.	0.8	16
39	Estimation of interplanetary electric field conditions for historical geomagnetic storms. Journal of Geophysical Research: Space Physics, 2015, 120, 7307-7317.	0.8	19
40	Explicit characteristics of evolutionaryâ€type plasma bubbles observed from Equatorial Atmosphere Radar during the low to moderate solar activity years 2010â€“2012. Journal of Geophysical Research: Space Physics, 2015, 120, 1371-1382.	0.8	33
41	Unique latitudinal shape of ion upper transition height (HT) surface during deep solar minimum (2008-2009). Journal of Geophysical Research: Space Physics, 2015, 120, 1419-1427.	0.8	2
42	The influence of Corotating Interaction Region (CIR) driven geomagnetic storms on the development of equatorial plasma bubbles (EPBs) over wide range of longitudes. Advances in Space Research, 2015, 55, 535-544.	1.2	13
43	CME front and severe space weather. Journal of Geophysical Research: Space Physics, 2014, 119, 10,041.	0.8	35
44	Characteristics of largeâ€scale wave structure observed from African and Southeast Asian longitudinal sectors. Journal of Geophysical Research: Space Physics, 2014, 119, 2288-2297.	0.8	47
45	Planetary-scale wave structures of the earthâ€™s atmosphere revealed from the COSMIC observations. Journal of Meteorological Research, 2014, 28, 281-295.	0.9	2
46	Modeling and observations of the northâ€“south ionospheric asymmetry at low latitudes at long deep solar minimum. Advances in Space Research, 2013, 52, 375-382.	1.2	31
47	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
48	First observational evidence for opposite zonal electric fields in equatorial E and F region altitudes during a geomagnetic storm period. Journal of Geophysical Research, 2012, 117, .	3.3	11
49	Ionospheric and thermospheric storms at equatorial latitudes observed by CHAMP, ROCSAT, and DMSP. Journal of Geophysical Research, 2012, 117, .	3.3	28
50	On the application of differential phase measurements to study the zonal large scale wave structure (LSWS) in the ionospheric electron content. Radio Science, 2012, 47, .	0.8	33
51	On seeding, large-scale wave structure, equatorial spreadF, and scintillations over Vietnam. Geophysical Research Letters, 2011, 38, n/a-n/a.	1.5	54
52	Comment on â€œWestward electric field penetration to the dayside equatorial ionosphere during the main phase of the geomagnetic storm on 22 July 2009â€•by V. Sreeja et al.. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	1
53	Statistics of geomagnetic storms and ionospheric storms at low and mid latitudes in two solar cycles. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	72
54	Strong thermospheric cooling during the 2009 major stratosphere warming. Geophysical Research Letters, 2011, 38, n/a-n/a.	1.5	61

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55	Equatorial electrodynamics and neutral background in the Asian sector during the 2009 stratospheric sudden warming. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	60
56	Dayside ionospheric response to recurrent geomagnetic activity during the extreme solar minimum of 2008. Geophysical Research Letters, 2010, 37, .	1.5	43
57	A comparison of ionospheric O⁺/lightâ€ion transition height derived from ionâ€composition measurements and the topside ion density profiles over equatorial latitudes. Geophysical Research Letters, 2010, 37, .	1.5	7
58	Periodic solar wind forcing due to recurrent coronal holes during 1996â€“2009 and its impact on Earth's geomagnetic and ionospheric properties during the extreme solar minimum. Journal of Geophysical Research, 2010, 115, .	3.3	55
59	FORMOSATâ€3/COSMIC observations of seasonal and longitudinal variations of equatorial ionization anomaly and its interhemispheric asymmetry during the solar minimum period. Journal of Geophysical Research, 2009, 114, .	3.3	90
60	Topside ionospheric effective scale heights (H_T) derived with ROCSATâ€1 and groundâ€based ionosonde observations at equatorial and midlatitude stations. Journal of Geophysical Research, 2009, 114, .	3.3	44
61	Local time dependent response of postsunset ESF during geomagnetic storms. Journal of Geophysical Research, 2008, 113, .	3.3	86
62	The combined effects of electrojet strength and the geomagnetic activity (<I>K_p</I>-index) on the post sunset height rise of the F-layer and its role in the generation of ESF during high and low solar activity periods. Annales Geophysicae, 2007, 25, 2007-2017.	0.6	14
63	Local time dependant response of Indian equatorial ionosphere to the moderate geomagnetic storms. Advances in Space Research, 2007, 39, 1304-1312.	1.2	4
64	Morphological and spectral characteristics of L-band and VHF scintillations and their impact on trans-ionospheric communications. Earth, Planets and Space, 2006, 58, 895-904.	0.9	23
65	The role of post-sunset vertical drifts at the equator in predicting the onset of VHF scintillations during high and low sunspot activity years. Annales Geophysicae, 2006, 24, 1609-1616.	0.6	55
66	VHF and L-band scintillation characteristics over an Indian low latitude station, Waltair (17.7Â° N, 83.3Â°) Tj ETQq0 0 0 rgBT /Overlock 1	0.6	49