Seebany Datta-Barua

List of Publications by Year
in descending order

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29	366	933447 10	794594 19
papers	citations	h-index	g-index

31	31	31	379
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Ionospheric Irregularity Layer Height and Thickness Estimation With a GNSS Receiver Array. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 6198-6207.	6.3	2
2	Transport of Nitric Oxide Via Lagrangian Coherent Structures Into the Top of the Polar Vortex. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2020JD034523.	3.3	7
3	Alignment of Highâ€Latitude Ionospheric and Thermospheric Lagrangian Coherent Structures. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA029028.	2.4	2
4	Nightâ€Time Ionospheric Localized Enhancements (NILE) Observed in North America Following Geomagnetic Disturbances. Journal of Geophysical Research: Space Physics, 2021, 126, e2021JA029324.	2.4	6
5	Lower Thermospheric Material Transport via Lagrangian Coherent Structures. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA028834.	2.4	6
6	Assimilation of GNSS Measurements for Estimation of Highâ€Latitude Convection Processes. Space Weather, 2020, 18, e2019SW002409.	3.7	1
7	Automated Ionospheric Scattering Layer Hypothesis Generation for Detected and Classified Auroral Global Positioning System Scintillation Events. Radio Science, 2020, 55, e2018RS006779.	1.6	7
8	SuperDARN Evidence for Convectionâ€Driven Lagrangian Coherent Structures in the Polar Ionosphere. Journal of Geophysical Research: Space Physics, 2019, 124, 3573-3588.	2.4	5
9	Auroral Ionospheric Irregularity Properties via Estimation and Inverse Modeling of GNSS Scintillations. , 2019, , .		0
10	Horseshoes in the Highâ€Latitude Ionosphere. Journal of Geophysical Research: Space Physics, 2018, 123, 5831-5849.	2.4	7
11	Lagrangian coherent structures in the thermosphere: Predictive transport barriers. Geophysical Research Letters, 2017, 44, 4549-4557.	4.0	11
12	Ushering in a New Frontier in Geospace Through Data Science. Journal of Geophysical Research: Space Physics, 2017, 122, 12,586.	2.4	28
13	Distributed sensing of ionospheric irregularities with a GNSS receiver array. Radio Science, 2017, 52, 988-1003.	1.6	13
14	Inverse modeling of ionospheric irregularities observed using GPS scintillations at Poker Flat, AK. , 2017, , .		0
15	Assimilation of thermospheric measurements for ionosphereâ€thermosphere state estimation. Radio Science, 2016, 51, 1818-1837.	1.6	6
16	First light from a kilometerâ€baseline Scintillation Auroral GPS Array. Geophysical Research Letters, 2015, 42, 3639-3646.	4.0	21
17	Relative Ionospheric Ranging Delay in LEO GNSS Oceanic Reflections. IEEE Geoscience and Remote Sensing Letters, 2015, 12, 1416-1420.	3.1	12
18	Properties of high latitude irregularities with a short-baseline 2D GPS scintillation array. , 2014, , .		0

#	Article	IF	Citations
19	Effects of solar cycle 24 activity on WAAS navigation. Space Weather, 2014, 12, 46-63.	3.7	18
20	Ionospheric Error Modeling for Carrier Phase-Based Multiconstellation Navigation Systems. IEEE Transactions on Aerospace and Electronic Systems, 2013, 49, 451-467.	4.7	3
21	First stormâ€time plasma velocity estimates from highâ€resolution ionospheric data assimilation. Journal of Geophysical Research: Space Physics, 2013, 118, 7458-7471.	2.4	10
22	Deducing storm timeFregion ionospheric dynamics from 3-D time-varying imaging. Journal of Geophysical Research, 2011, 116, .	3.3	13
23	Ionospheric Threat Parameterization for Local Area Global-Positioning-System-Based Aircraft Landing Systems. Journal of Aircraft, 2010, 47, 1141-1151.	2.4	84
24	Neutral wind estimation from 4â€D ionospheric electron density images. Journal of Geophysical Research, 2009, 114, .	3.3	18
25	Altitudinal variation of midlatitude localized TEC enhancement from groundâ€•and spaceâ€based measurements. Space Weather, 2008, 6, .	3.7	11
26	Assessment of Ionosphere Spatial Decorrelation for Global Positioning System-Based Aircraft Landing Systems. Journal of Aircraft, 2007, 44, 1662-1669.	2.4	68
27	Estimating Height and Thickness of an Ionospheric Irregularity Layer with a Closely-Spaced GNSS Receiver Array. , 0, , .		4
28	Multiyear detection, classification and hypothesis of ionospheric layer causing GNSS scintillation. Radio Science, 0, , e2021RS007328.	1.6	2
29	Vector spherical harmonics for dataâ€assimilative neutral wind estimation. Space Weather, 0, , .	3.7	0