Takuya Tsugawa

List of Publications by Year
in descending order

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72 papers	1,432 citations	331538 21 h-index	330025 37 g-index
72 all docs	72 docs citations	72 times ranked	1248 citing authors

#	Article	IF	Citations
1	Statistical study of medium-scale traveling ionospheric disturbances observed with the GPS networks in Southern California. Earth, Planets and Space, 2007, 59, 95-102.	0.9	141
2	Concentric waves and shortâ€period oscillations observed in the ionosphere after the 2013 Moore EF5 tornado. Geophysical Research Letters, 2013, 40, 5581-5586.	1.5	135
3	First observations of largeâ€scale wave structure and equatorial spread F using CERTO radio beacon on the C/NOFS satellite. Geophysical Research Letters, 2009, 36, .	1.5	87
4	Medium-scale traveling ionospheric disturbances observed by GPS receiver network in Japan: a short review. GPS Solutions, 2007, 11, 139-144.	2.2	75
5	Ionospheric multiple stratifications and irregularities induced by the 2011 off the Pacific coast of Tohoku Earthquake. Earth, Planets and Space, 2011, 63, 869-873.	0.9	61
6	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
7	TEC prediction with neural network for equatorial latitude station in Thailand. Earth, Planets and Space, 2012, 64, 473-483.	0.9	59
8	Low-latitude ionospheric-thermospheric response to storm time electrodynamical coupling between high and low latitudes. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	55
9	On seeding, large-scale wave structure, equatorial spreadF, and scintillations over Vietnam. Geophysical Research Letters, 2011, 38, n/a-n/a.	1.5	54
10	Observations and simulations of quasiperiodic ionospheric oscillations and largeâ€scale traveling ionospheric disturbances during the December 2006 geomagnetic storm. Journal of Geophysical Research, 2008, 113, .	3.3	44
11	Rayleigh wave signature in ionograms induced by strong earthquakes. Journal of Geophysical Research, 2012, 117, .	3.3	44
12	Geomagnetic conjugate observations of large-scale traveling ionospheric disturbances using GPS networks in Japan and Australia. Journal of Geophysical Research, 2006, 111, .	3.3	36
13	Giant ionospheric disturbances observed with the SuperDARN Hokkaido HF radar and GPS network after the 2011 Tohoku earthquake. Earth, Planets and Space, 2012, 64, 1295-1307.	0.9	34
14	Airglow-imaging observation of plasma bubble disappearance at geomagnetically conjugate points. Earth, Planets and Space, 2015, 67, .	0.9	34
15	Ground magnetic effects of the equatorial electrojet simulated by the TIEâ€GCM driven by TIMED satellite data. Journal of Geophysical Research: Space Physics, 2014, 119, 3150-3161.	0.8	32
16	Total Electron Content Observations by Dense Regional and Worldwide International Networks of GNSS. Journal of Disaster Research, 2018, 13, 535-545.	0.4	31
17	Effects of pre-reversal enhancement of Eâ€‰Ã—â€‰B drift on the latitudinal extension of plasma bubble in Southeast Asia. Earth, Planets and Space, 2015, 67, .	0.9	29
18	A comparison of neural network-based predictions of foF2 with the IRI-2012 model at conjugate points in Southeast Asia. Advances in Space Research, 2017, 59, 2934-2950.	1.2	26

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19	Observation and characterization of traveling ionospheric disturbances induced by solar eclipse of 20 March 2015 using incoherent scatter radars and GPS networks. Journal of Atmospheric and Solar-Terrestrial Physics, 2019, 191, 105051.	0.6	26
20	Temporal and Spatial Variations of Total Electron Content Enhancements During a Geomagnetic Storm on 27 and 28 September 2017. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA026873.	0.8	24
21	A new ionospheric storm scale based on TEC and f_oF₂ statistics. Space Weather, 2017, 15, 228-239.	1.3	22
22	Observations of GPS scintillation during an isolated auroral substorm. Progress in Earth and Planetary Science, 2014, 1, 16.	1.1	20
23	Development of GNSS Buoy for a Synthetic Geohazard Monitoring System. Journal of Disaster Research, 2018, 13, 460-471.	0.4	19
24	Stormâ€induced plasma stream in the lowâ€latitude to midlatitude ionosphere. Journal of Geophysical Research: Space Physics, 2013, 118, 5931-5941.	0.8	18
25	Solar activity dependence of medium-scale traveling ionospheric disturbances using GPS receivers in Japan. Earth, Planets and Space, 2021, 73, .	0.9	18
26	Temporal and Spatial Variations of Storm Time Midlatitude Ionospheric Trough Based on Global GNSSâ€TEC and Arase Satellite Observations. Geophysical Research Letters, 2018, 45, 7362-7370.	1.5	17
27	A Science Cloud for Data Intensive Sciences. Data Science Journal, 2013, 12, WDS139-WDS146.	0.6	17
28	First simultaneous observations of daytime MSTIDs over North America using GPSâ€TEC and DEMETER satellite data. Geophysical Research Letters, 2009, 36, .	1.5	15
29	Daytime F-region irregularity triggered by rocket-induced ionospheric hole over low latitude. Progress in Earth and Planetary Science, 2018, 5, .	1.1	14
30	Statistical analysis of ionospheric total electron content (TEC): long-term estimation of extreme TEC in Japan. Earth, Planets and Space, 2021, 73, .	0.9	13
31	The variation of equatorial spread-F occurrences observed by ionosondes at Thailand longitude sector. Advances in Space Research, 2013, 52, 1809-1819.	1.2	12
32	Relationship Between the Locations of the Midlatitude Trough and Plasmapause Using GNSSâ€TEC and Arase Satellite Observation Data. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA028943.	0.8	12
33	Space weather benchmarks on Japanese society. Earth, Planets and Space, 2021, 73, .	0.9	12
34	Statistical analysis of short-wave fadeout for extreme space weather event estimation. Earth, Planets and Space, 2020, 72, .	0.9	12
35	Lowâ€latitude total electron content enhancement at low geomagnetic activity observed over Japan. Journal of Geophysical Research, 2007, 112, .	3.3	11
36	Medium-Scale Traveling Ionospheric Disturbances and Plasma Bubbles Observed by an All-Sky Airglow Imager at Yonaguni, Japan. Terrestrial, Atmospheric and Oceanic Sciences, 2009, 20, 287.	0.3	9

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37	Lowâ€latitude ionospheric height variation as observed by meridional ionosonde chain: Formation of ionospheric ceiling over the magnetic equator. Journal of Geophysical Research: Space Physics, 2014, 119, 10,595.	0.8	9
38	The occurrence of equatorial spread-F at conjugate stations in Southeast Asia. Advances in Space Research, 2015, 55, 2139-2147.	1.2	8
39	Multi-Instrument Observations of the Atmospheric and Ionospheric Response to the 2013 Sudden Stratospheric Warming Over Eastern Asia Region. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 1232-1243.	2.7	8
40	Latitudinal GRBRâ€TEC estimation in Southeast Asia region based on the twoâ€station method. Radio Science, 2014, 49, 910-920.	0.8	7
41	A new expression for computing the bottomside thickness parameter and comparisons with the NeQuick and IRI-2012 models during declining phase of solar cycle 23 at equatorial latitude station, Chumphon, Thailand. Advances in Space Research, 2017, 60, 329-346.	1.2	7
42	Ionospheric peak height at the magnetic equator: Comparison between ionosonde measurements and IRI. Advances in Space Research, 2017, 60, 375-380.	1.2	6
43	Visualizing sporadic E using aeronautical navigation signals at VHF frequencies. Journal of Space Weather and Space Climate, 2021, 11, 6.	1.1	6
44	Offâ€greatâ€circle paths in transequatorial propagation: 2. Nonmagneticâ€fieldâ€aligned reflections. Journal of Geophysical Research: Space Physics, 2016, 121, 11,176.	0.8	5
45	Direct Observations of Traveling Ionospheric Disturbances as Focusers of Solar Radiation: Spectral Caustics. Astrophysical Journal, 2019, 877, 98.	1.6	5
46	Model-based reproduction and validation of the total spectra of aÂsolar flare and their impact on the global environment at the X9.3 event of September 6, 2017. Earth, Planets and Space, 2021, 73, .	0.9	5
47	A monitoring network for anomalous propagation of aeronautical VHF radio waves due to sporadic E in Japan. Earth, Planets and Space, 2020, 72, .	0.9	5
48	Estimation of the single GPS-receiver bias using the gradient descent algorithm. , 2016, , .		5
49	Offâ€greatâ€circle paths in transequatorial propagation: 1. Discrete and diffuse types. Journal of Geophysical Research: Space Physics, 2016, 121, 11,157.	0.8	4
50	Study of ionospheric topside variations based on NeQuick topside formulation and comparisons with the IRI-2012 model at equatorial latitude station, Chumphon, Thailand. Advances in Space Research, 2017, 60, 206-221.	1.2	4
51	Propagation Direction Analyses of Mediumâ€Scale Traveling Ionospheric Disturbances Observed Over North America With GPSâ€TEC Perturbation Maps by Threeâ€Dimensional Spectral Analysis Method. Journal of Geophysical Research: Space Physics, 2022, 127, .	0.8	4
52	Statistical Behavior of Largeâ€Scale Ionospheric Disturbances From High Latitudes to Midâ€Latitudes During Geomagnetic Storms Using 20â€yr GNSSâ€TEC Data: Dependence on Season and Storm Intensity. Journal of Geophysical Research: Space Physics, 2022, 127, .	0.8	3
53	On the Role of Eâ€F Region Coupling in the Generation of Nighttime MSTIDs During Summer and Equinox: Case Studies Over Northern Germany. Journal of Geophysical Research: Space Physics, 2022, 127, .	0.8	3
54	The comparison of Klobuchar model with GPS TEC model at the low geomagnetic latitude station, Thailand. , 2019, , .		2

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55	The statistics of equatorial spread-F at the conjugate stations in Southeast Asia. , 2014, , .		1
56	A correction factor of bottomside thickness parameter for computing TEC in global navigation satellite systems. , 2017, , .		1
57	Low Cost Development of HF Receiver Prototype for HF-START Field Campaign. , 2018, , .		1
58	Assessment of GPS-TEC with the IRI-2016 model, the IRI-Plas model and GIM-TEC during low solar activity at KMITL, Thailand. , 2019, , .		1
59	HF-START: Application in Aid of Radio Communications/Navigation. Lecture Notes in Electrical Engineering, 2019, , 274-287.	0.3	1
60	MEASUREMENT AND SIMULATION OF EQUATORIAL IONOSPHERIC PLASMA BUBBLES TO ASSESS THEIR IMPACT ON GNSS PERFORMANCE. Journal of the Korean Society of Surveying Geodesy Photogrammetry and Cartography, 2012, 30, 607-613.	0.2	1
61	Spectral Density Analysis of Total Electron Content Perturbations Associated with Earthquakes. IEEJ Transactions on Fundamentals and Materials, 2016, 136, 272-277.	0.2	1
62	Propagation characteristics of sporadic E and medium-scale traveling ionospheric disturbances (MSTIDs): statistics using HF Doppler and GPS-TEC data in Japan. Earth, Planets and Space, 2022, 74, .	0.9	1
63	The variation of critical frequency of E layer over Chumphon, Thailand. , 2013, , .		0
64	Study of medium-scale traveling ionospheric disturbances (MSTID) with sounding rockets and ground observations. , 2014, , .		0
65	The observation of equatorial plasma bubble using all sky imager and GPS TEC measurement. , 2014, , .		0
66	Measurement of ionosphere over the western pacific ocean. , 2016, , .		0
67	Statistical analysis of high frequency radio parameters on St. Patrick's day in Thailand. , 2017, , .		0
68	A new expression for computing topside scale height for satellite-based communications. , 2017, , .		0
69	Activity for Space Weather Research and Operation in NICT. , 2018, , .		0
70	Temporal and Spatial Variations of Mid-Latitude Ionospheric Trough During a Geomagnetic Storm Based on Global GNSS-TEC and Arase Satellite Observations. , 2018, , .		0
71	Identifying Geomagnetic Storms with Ionospheric Storm Scale for GNSS and Disaster Prevention. , 2020, , .		0
72	Pengesanan Gelembung Plasma di dalam Lapisan Ionosfera menggunakan Penerima GPS di Asia Tenggara. Sains Malaysiana, 2017, 46, 879-885.	0.3	0