

Takuya Tsugawa

List of Publications by Year in descending order

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papers

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docs citations

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times ranked

1248
citing authors

#	ARTICLE	IF	CITATIONS
1	Propagation Direction Analyses of Medium-Scale Traveling Ionospheric Disturbances Observed Over North America With GPS-TEC Perturbation Maps by Three-Dimensional Spectral Analysis Method. <i>Journal of Geophysical Research: Space Physics</i> , 2022, 127, .	0.8	4
2	Statistical Behavior of Large-Scale Ionospheric Disturbances From High Latitudes to Mid-Latitudes During Geomagnetic Storms Using 20-yr GNSS-TEC Data: Dependence on Season and Storm Intensity. <i>Journal of Geophysical Research: Space Physics</i> , 2022, 127, .	0.8	3
3	Propagation characteristics of sporadic E and medium-scale traveling ionospheric disturbances (MSTIDs): statistics using HF Doppler and GPS-TEC data in Japan. <i>Earth, Planets and Space</i> , 2022, 74, .	0.9	1
4	On the Role of E _z Region Coupling in the Generation of Nighttime MSTIDs During Summer and Equinox: Case Studies Over Northern Germany. <i>Journal of Geophysical Research: Space Physics</i> , 2022, 127, .	0.8	3
5	Solar activity dependence of medium-scale traveling ionospheric disturbances using GPS receivers in Japan. <i>Earth, Planets and Space</i> , 2021, 73, .	0.9	18
6	Statistical analysis of ionospheric total electron content (TEC): long-term estimation of extreme TEC in Japan. <i>Earth, Planets and Space</i> , 2021, 73, .	0.9	13
7	Relationship Between the Locations of the Midlatitude Trough and Plasmapause Using GNSS-TEC and Arase Satellite Observation Data. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028943.	0.8	12
8	Model-based reproduction and validation of the total spectra of a solar flare and their impact on the global environment at the X9.3 event of September 6, 2017. <i>Earth, Planets and Space</i> , 2021, 73, .	0.9	5
9	Space weather benchmarks on Japanese society. <i>Earth, Planets and Space</i> , 2021, 73, .	0.9	12
10	Visualizing sporadic E using aeronautical navigation signals at VHF frequencies. <i>Journal of Space Weather and Space Climate</i> , 2021, 11, 6.	1.1	6
11	Multi-Instrument Observations of the Atmospheric and Ionospheric Response to the 2013 Sudden Stratospheric Warming Over Eastern Asia Region. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2020, 58, 1232-1243.	2.7	8
12	Identifying Geomagnetic Storms with Ionospheric Storm Scale for GNSS and Disaster Prevention. , 2020, , .		0
13	Temporal and Spatial Variations of Total Electron Content Enhancements During a Geomagnetic Storm on 27 and 28 September 2017. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA026873.	0.8	24
14	A monitoring network for anomalous propagation of aeronautical VHF radio waves due to sporadic E in Japan. <i>Earth, Planets and Space</i> , 2020, 72, .	0.9	5
15	Statistical analysis of short-wave fadeout for extreme space weather event estimation. <i>Earth, Planets and Space</i> , 2020, 72, .	0.9	12
16	The comparison of Klobuchar model with GPS TEC model at the low geomagnetic latitude station, Thailand. , 2019, , .		2
17	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
18	Direct Observations of Traveling Ionospheric Disturbances as Focusers of Solar Radiation: Spectral Caustics. <i>Astrophysical Journal</i> , 2019, 877, 98.	1.6	5

#	ARTICLE	IF	CITATIONS
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	HF-START: Application in Aid of Radio Communications/Navigation. Lecture Notes in Electrical Engineering, 2019, , 274-287.	0.3	1
21	Daytime F-region irregularity triggered by rocket-induced ionospheric hole over low latitude. Progress in Earth and Planetary Science, 2018, 5, .	1.1	14
22	Activity for Space Weather Research and Operation in NICT. , 2018, , .		0
23	Low Cost Development of HF Receiver Prototype for HF-START Field Campaign. , 2018, , .		1
24	Temporal and Spatial Variations of Mid-Latitude Ionospheric Trough During a Geomagnetic Storm Based on Global GNSS-TEC and Arase Satellite Observations. , 2018, , .		0
25	Temporal and Spatial Variations of Storm Time Midlatitude Ionospheric Trough Based on Global GNSS-TEC and Arase Satellite Observations. Geophysical Research Letters, 2018, 45, 7362-7370.	1.5	17
26	Development of GNSS Buoy for a Synthetic Geohazard Monitoring System. Journal of Disaster Research, 2018, 13, 460-471.	0.4	19
27	Total Electron Content Observations by Dense Regional and Worldwide International Networks of GNSS. Journal of Disaster Research, 2018, 13, 535-545.	0.4	31
28	A new ionospheric storm scale based on TEC and f_oF_2 statistics. Space Weather, 2017, 15, 228-239.	1.3	22
29	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
30	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
31	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
32	Ionospheric peak height at the magnetic equator: Comparison between ionosonde measurements and IRI. Advances in Space Research, 2017, 60, 375-380.	1.2	6
33	A correction factor of bottomside thickness parameter for computing TEC in global navigation satellite systems. , 2017, , .		1
34	Statistical analysis of high frequency radio parameters on St. Patrick's day in Thailand. , 2017, , .		0
35	A new expression for computing topside scale height for satellite-based communications. , 2017, , .		0
36	Pengesanan Gelembung Plasma di dalam Lapisan Ionosfera menggunakan Penerima GPS di Asia Tenggara. Sains Malaysiana, 2017, 46, 879-885.	0.3	0

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37	Measurement of ionosphere over the western pacific ocean. , 2016, , .		0
38	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
39	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
40	Spectral Density Analysis of Total Electron Content Perturbations Associated with Earthquakes. IEEJ Transactions on Fundamentals and Materials, 2016, 136, 272-277.	0.2	1
41	Estimation of the single GPS-receiver bias using the gradient descent algorithm. , 2016, , .		5
42	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
43	Airglow-imaging observation of plasma bubble disappearance at geomagnetically conjugate points. Earth, Planets and Space, 2015, 67, .	0.9	34
44	The occurrence of equatorial spread-F at conjugate stations in Southeast Asia. Advances in Space Research, 2015, 55, 2139-2147.	1.2	8
45	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
46	Latitudinal GRBRâ€TEC estimation in Southeast Asia region based on the twoâ€station method. Radio Science, 2014, 49, 910-920.	0.8	7
47	Study of medium-scale traveling ionospheric disturbances (MSTID) with sounding rockets and ground observations. , 2014, , .		0
48	The statistics of equatorial spread-F at the conjugate stations in Southeast Asia. , 2014, , .		1
49	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
50	The observation of equatorial plasma bubble using all sky imager and GPS TEC measurement. , 2014, , .		0
51	Observations of GPS scintillation during an isolated auroral substorm. Progress in Earth and Planetary Science, 2014, 1, 16.	1.1	20
52	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
53	Stormâ€induced plasma stream in the lowâ€latitude to midlatitude ionosphere. Journal of Geophysical Research: Space Physics, 2013, 118, 5931-5941.	0.8	18
54	The variation of critical frequency of E layer over Chumphon, Thailand. , 2013, , .		0

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55	Concentric waves and short-period oscillations observed in the ionosphere after the 2013 Moore EF5 tornado. <i>Geophysical Research Letters</i> , 2013, 40, 5581-5586.	1.5	135
56	A Science Cloud for Data Intensive Sciences. <i>Data Science Journal</i> , 2013, 12, WDS139-WDS146.	0.6	17
57	TEC prediction with neural network for equatorial latitude station in Thailand. <i>Earth, Planets and Space</i> , 2012, 64, 473-483.	0.9	59
58	Giant ionospheric disturbances observed with the SuperDARN Hokkaido HF radar and GPS network after the 2011 Tohoku earthquake. <i>Earth, Planets and Space</i> , 2012, 64, 1295-1307.	0.9	34
59	Rayleigh wave signature in ionograms induced by strong earthquakes. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	44
60	MEASUREMENT AND SIMULATION OF EQUATORIAL IONOSPHERIC PLASMA BUBBLES TO ASSESS THEIR IMPACT ON GNSS PERFORMANCE. <i>Journal of the Korean Society of Surveying Geodesy Photogrammetry and Cartography</i> , 2012, 30, 607-613.	0.2	1
61	Low-latitude ionospheric-thermospheric response to storm time electrodynamical coupling between high and low latitudes. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a.	3.3	55
62	On seeding, large-scale wave structure, equatorial spread F , and scintillations over Vietnam. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	1.5	54
63	Equatorial electrodynamics and neutral background in the Asian sector during the 2009 stratospheric sudden warming. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a.	3.3	60
64	Ionospheric multiple stratifications and irregularities induced by the 2011 off the Pacific coast of Tohoku Earthquake. <i>Earth, Planets and Space</i> , 2011, 63, 869-873.	0.9	61
65	Medium-Scale Traveling Ionospheric Disturbances and Plasma Bubbles Observed by an All-Sky Airglow Imager at Yonaguni, Japan. <i>Terrestrial, Atmospheric and Oceanic Sciences</i> , 2009, 20, 287.	0.3	9
66	First simultaneous observations of daytime MSTIDs over North America using GPS-TEC and DEMETER satellite data. <i>Geophysical Research Letters</i> , 2009, 36, .	1.5	15
67	First observations of large-scale wave structure and equatorial spread F using CERTO radio beacon on the C/NOFS satellite. <i>Geophysical Research Letters</i> , 2009, 36, .	1.5	87
68	Observations and simulations of quasiperiodic ionospheric oscillations and large-scale traveling ionospheric disturbances during the December 2006 geomagnetic storm. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	44
69	Statistical study of medium-scale traveling ionospheric disturbances observed with the GPS networks in Southern California. <i>Earth, Planets and Space</i> , 2007, 59, 95-102.	0.9	141
70	Low-latitude total electron content enhancement at low geomagnetic activity observed over Japan. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	11
71	Medium-scale traveling ionospheric disturbances observed by GPS receiver network in Japan: a short review. <i>GPS Solutions</i> , 2007, 11, 139-144.	2.2	75
72	Geomagnetic conjugate observations of large-scale traveling ionospheric disturbances using GPS networks in Japan and Australia. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	36