

Tomoaki Hori

List of Publications by Year in descending order

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91
papers

1,714
citations

430874

18
h-index

330143

37
g-index

97
all docs

97
docs citations

97
times ranked

1559
citing authors

#	ARTICLE	IF	CITATIONS
1	The Space Physics Environment Data Analysis System (SPEDAS). <i>Space Science Reviews</i> , 2019, 215, 9.	8.1	332
2	The ERG Science Center. <i>Earth, Planets and Space</i> , 2018, 70, .	2.5	124
3	Review of the accomplishments of mid-latitude Super Dual Auroral Radar Network (SuperDARN) HF radars. <i>Progress in Earth and Planetary Science</i> , 2019, 6, .	3.0	114
4	Ground-based instruments of the PWING project to investigate dynamics of the inner magnetosphere at subauroral latitudes as a part of the ERG-ground coordinated observation network. <i>Earth, Planets and Space</i> , 2017, 69, .	2.5	74
5	Measurements of geomagnetically induced current in a power grid in Hokkaido, Japan. <i>Space Weather</i> , 2009, 7, .	3.7	65
6	Average profile of ion flow and convection electric field in the near-Earth plasma sheet. <i>Geophysical Research Letters</i> , 2000, 27, 1623-1626.	4.0	58
7	Penetration of the convection and overshielding electric fields to the equatorial ionosphere during a quasiperiodic δB_z geomagnetic fluctuation event. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	55
8	Preonset time sequence of auroral substorms: Coordinated observations by all-sky imagers, satellites, and radars. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	51
9	Wire Probe Antenna (WPT) and Electric Field Detector (EFD) of Plasma Wave Experiment (PWE) aboard the Arase satellite: specifications and initial evaluation results. <i>Earth, Planets and Space</i> , 2017, 69, .	2.5	49
10	Penetration of MeV electrons into the mesosphere accompanying pulsating aurorae. <i>Scientific Reports</i> , 2021, 11, 13724.	3.3	37
11	The Energization and Radiation in Geospace (ERG) Project. <i>Geophysical Monograph Series</i> , 0, , 103-116.	0.1	33
12	Propagation of large amplitude ionospheric disturbances with velocity dispersion observed by the SuperDARN Hokkaido radar after the 2011 off the Pacific coast of Tohoku Earthquake. <i>Earth, Planets and Space</i> , 2011, 63, 891-896.	2.5	32
13	The Distant Magnetotail: Its Structure, IMF Dependence, and Thermal Properties. <i>Geophysical Monograph Series</i> , 0, , 1-19.	0.1	32
14	Inter-University upper Atmosphere Global Observation Network (IUGONET). <i>Data Science Journal</i> , 2013, 12, WDS179-WDS184.	1.3	32
15	Magnetotail behavior during storm time "sawtooth injections". <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	31
16	Storm-time convection electric field in the near-Earth plasma sheet. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	29
17	Structure of the distant magnetotail and its dependence on the IMF By component: GEOTAIL observations. <i>Advances in Space Research</i> , 1997, 20, 949-959.	2.6	27
18	Photoelectron flows in the polar wind during geomagnetically quiet periods. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	26

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19	Response of the Ionosphereâ€Plasmasphere Coupling to the September 2017 Storm: What Erodes the Plasmasphere so Severely?. Space Weather, 2019, 17, 861-876.	3.7	25
20	Direct measurements of the Poynting flux associated with convection electric fields in the magnetosphere. Journal of Geophysical Research, 2010, 115, .	3.3	18
21	Long-term variation in the upper atmosphere as seen in the geomagnetic solar quiet daily variation. Earth, Planets and Space, 2014, 66, .	2.5	18
22	Auroral fragmentation into patches. Journal of Geophysical Research: Space Physics, 2014, 119, 8249-8261.	2.4	18
23	Approximate forms of daytime ionospheric conductance. Journal of Geophysical Research: Space Physics, 2014, 119, 10,397.	2.4	17
24	Role of Ducting in Relativistic Electron Loss by Whistlerâ€Mode Wave Scattering. Journal of Geophysical Research: Space Physics, 2021, 126, e2021JA029851.	2.4	17
25	Response of largeâ€scale ionospheric convection to substorm expansion onsets: A case study. Journal of Geophysical Research, 2008, 113, .	3.3	16
26	Remote Detection of Drift Resonance Between Energetic Electrons and Ultralow Frequency Waves: Multisatellite Coordinated Observation by Arase and Van Allen Probes. Geophysical Research Letters, 2019, 46, 11642-11651.	4.0	16
27	Transport and loss of the inner plasma sheet electrons: THEMIS observations. Journal of Geophysical Research, 2011, 116, .	3.3	15
28	Effect of R2â€FAC development on the ionospheric electric field pattern deduced by a global ionospheric potential solver. Journal of Geophysical Research, 2012, 117, .	3.3	15
29	Characteristics of Seasonal Variation and Solar Activity Dependence of the Geomagnetic Solar Quiet Daily Variation. Journal of Geophysical Research: Space Physics, 2017, 122, 10,796.	2.4	13
30	Evening Side EMIC Waves and Related Proton Precipitation Induced by a Substorm. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA029091.	2.4	13
31	A powerful tool for browsing quick-look data in solar-terrestrial physics: â€Conjunction Event Finderâ€ Earth, Planets and Space, 2011, 63, e1-e4.	2.5	12
32	Magnetospheric responses to the passage of the interplanetary shock on 24 November 2008. Journal of Geophysical Research, 2012, 117, .	3.3	11
33	Theory, modeling, and integrated studies in the Arase (ERG) project. Earth, Planets and Space, 2018, 70, .	2.5	11
34	Cusp and Nightside Auroral Sources of O⁺ in the Plasma Sheet. Journal of Geophysical Research: Space Physics, 2019, 124, 10036-10047.	2.4	10
35	Investigation of Smallâ€Scale Electron Density Irregularities Observed by the Arase and Van Allen Probes Satellites Inside and Outside the Plasmasphere. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA027917.	2.4	10
36	Collaborative Research Activities of the Arase and Van Allen Probes. Space Science Reviews, 2022, 218, .	8.1	10

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37	Occurrence characteristics and lowest speed limit of subauroral polarization stream (SAPS) observed by the SuperDARN Hokkaido East radar. <i>Earth, Planets and Space</i> , 2015, 67, .	2.5	9
38	Omega band pulsating auroras observed onboard THEMIS spacecraft and on the ground. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 5524-5544.	2.4	9
39	Substorm-associated Ionospheric Flow Fluctuations During the 27 March 2017 Magnetic Storm: SuperDARN-Arase Conjunction. <i>Geophysical Research Letters</i> , 2018, 45, 9441-9449.	4.0	9
40	Transient ionization of the mesosphere during auroral breakup: Arase satellite and ground-based conjugate observations at Syowa Station. <i>Earth, Planets and Space</i> , 2019, 71, .	2.5	9
41	A substorm-associated drift echo of energetic protons observed by Geotail: Radial density gradient structure. <i>Geophysical Research Letters</i> , 2003, 30, .	4.0	8
42	Plasma transport from multicomponent approach. <i>Geophysical Research Letters</i> , 2005, 32, .	4.0	8
43	Evolution of negative Si^{+} -induced ionospheric flows observed by SuperDARN King Salmon HF radar. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	8
44	Statistical study of auroral fragmentation into patches. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 6207-6217.	2.4	8
45	Propagation and evolution of electric fields associated with solar wind pressure pulses based on spacecraft and ground-based observations. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 8446-8461.	2.4	8
46	Statistical Properties of Molecular Ions in the Ring Current Observed by the Arase (ERG) Satellite. <i>Geophysical Research Letters</i> , 2019, 46, 8643-8651.	4.0	8
47	Strong Diffusion of Energetic Electrons by Equatorial Chorus Waves in the Midnight-to-Dawn Sector. <i>Geophysical Research Letters</i> , 2019, 46, 12685-12692.	4.0	8
48	Plasma and Field Observations in the Magnetospheric Source Region of a Stable Auroral Red (SAR) Arc by the Arase Satellite on 28 March 2017. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2020JA028068.	2.4	8
49	Azimuthal auroral expansion associated with fast flows in the near-Earth plasma sheet: Coordinated observations of the THEMIS all-sky imagers and multiple spacecraft. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a.	3.3	7
50	IMF-By dependence of transient ionospheric flow perturbation associated with sudden impulses: SuperDARN observations. <i>Earth, Planets and Space</i> , 2015, 67, .	2.5	7
51	Arase Observation of the Source Region of Auroral Arcs and Diffuse Auroras in the Inner Magnetosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA027310.	2.4	7
52	Multi-Event Analysis of Plasma and Field Variations in Source of Stable Auroral Red (SAR) Arcs in Inner Magnetosphere During Non-Storm-Time Substorms. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA029081.	2.4	7
53	Localized electron density enhancements in the high-altitude polar ionosphere and their relationships with storm-enhanced density (SED) plumes and polar tongues of ionization (TOI). <i>Annales Geophysicae</i> , 2011, 29, 367-375.	1.6	6
54	Reduction of the field-aligned potential drop in the polar cap during large geomagnetic storms. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 4864-4874.	2.4	6

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55	An Interactive Data Language software package to calculate ionospheric conductivity by using numerical models. <i>Computer Physics Communications</i> , 2014, 185, 3398-3405.	7.5	6
56	Morphologies of omega band auroras. <i>Earth, Planets and Space</i> , 2017, 69, .	2.5	6
57	Visualization tool for three-dimensional plasma velocity distributions (ISEE_3D) as a plug-in for SPEDAS. <i>Earth, Planets and Space</i> , 2017, 69, .	2.5	6
58	Active auroral arc powered by accelerated electrons from very high altitudes. <i>Scientific Reports</i> , 2021, 11, 1610.	3.3	6
59	Field-Aligned Low-Energy O ⁺ Flux Enhancements in the Inner Magnetosphere Observed by Arase. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2021JA029168.	2.4	6
60	Interuniversity Upper Atmosphere Global Observation Network (IUGONET) Meta-Database and Analysis Software. <i>Data Science Journal</i> , 2014, 13, PDA37-PDA43.	1.3	6
61	Convection electric field in the near-Earth tail during the super magnetic storm of November 20 st 2003. <i>Geophysical Research Letters</i> , 2006, 33, .	4.0	5
62	Phase Space Density Analysis of Energy Transport in the Earth's Magnetotail. <i>Space Science Reviews</i> , 2006, 122, 69-80.	8.1	5
63	Meridional Distribution of Middle-Energy Protons and Pressure-Driven Currents in the Nightside Inner Magnetosphere: Arase Observations. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 5719-5733.	2.4	5
64	On the relationship between energy input to the ionosphere and the ion outflow flux under different solar zenith angles. <i>Earth, Planets and Space</i> , 2021, 73, 202.	2.5	5
65	Comparative Study of Electric Currents and Energetic Particle Fluxes in a Solar Flare and Earth Magnetospheric Substorm. <i>Astrophysical Journal</i> , 2021, 923, 151.	4.5	5
66	Contribution of Electron Pressure to Ring Current and Ground Magnetic Depression Using RAM-SCB Simulations and Arase Observations During 7 th -8 November 2017 Magnetic Storm. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2021JA029109.	2.4	4
67	A framework for estimating spherical vector fields using localized basis functions and its application to SuperDARN data processing. <i>Earth, Planets and Space</i> , 2020, 72, .	2.5	4
68	Study of an equatorward detachment of auroral arc from the oval using ground-space observations and the BATS-R-US CIMI model. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA029080.	2.4	4
69	Experiments using Semantic Web technologies to connect IUGONET, ESPAS and GFZ ISDC data portals. <i>Earth, Planets and Space</i> , 2016, 68, .	2.5	3
70	First Simultaneous Observation of a Night Time Medium-Scale Traveling Ionospheric Disturbance From the Ground and a Magnetospheric Satellite. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA029086.	2.4	3
71	Preferential Energization of Lower-Charge-State Heavier Ions in the Near-Earth Magnetotail. <i>Journal of Geophysical Research: Space Physics</i> , 2022, 127, .	2.4	3
72	Simultaneous Observations of EMIC-Induced Drifting Electron Holes (EDEHs) in the Earth's Radiation Belt by the Arase Satellite, Van Allen Probes, and THEMIS. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	3

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73	Statistical Study of Seasonal and Solar Activity Dependence of Nighttime MSTIDs Occurrence Using the SuperDARN Hokkaido Pair of Radars. <i>Journal of Geophysical Research: Space Physics</i> , 2022, 127, .	2.4	3
74	SC-Associated Electric Field Variations in the Magnetosphere and Ionospheric Convective Flows. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 11,044.	2.4	2
75	Energy-Resolved Detection of Precipitating Electrons of 30–100 keV by a Sounding Rocket Associated With Dayside Chorus Waves. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028477.	2.4	2
76	Low-Altitude Ion Upflow Observed by EISCAT and its Effects on Supply of Molecular Ions in the Ring Current Detected by Arase (ERG). <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028951.	2.4	2
77	ISEE_Wave: interactive plasma wave analysis tool. <i>Earth, Planets and Space</i> , 2021, 73, .	2.5	2
78	Rocket Observation of Sub-Relativistic Electrons in the Quiet Dayside Auroral Ionosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028633.	2.4	2
79	Characterization and Calibration of High-Energy Electron Instruments Onboard the Arase Satellite. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2021JA029110.	2.4	2
80	Magnetic Field and Energetic Particle Flux Oscillations and High-Frequency Waves Deep in the Inner Magnetosphere During Substorm Dipolarization: ERG Observations. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA029095.	2.4	2
81	Flux Enhancements of Field-Aligned Low-Energy O ⁺ Ion (FALEO) in the Inner Magnetosphere: A Possible Source of Warm Plasma Cloak and Oxygen Torus. <i>Journal of Geophysical Research: Space Physics</i> , 2022, 127, .	2.4	2
82	The Loading-Unloading Process in the Magnetotail During a Prolonged Steady Southward IMF Bz Period. <i>COSPAR Colloquia Series</i> , 2005, , 190-193.	0.2	1
83	Relative Contribution of ULF Waves and Whistler-mode Chorus to the Radiation Belt Variation during the May 2017 Storm. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028972.	2.4	1
84	Statistical Survey of Arase Satellite Data Sets in Conjunction With the Finnish Riometer Network. <i>Journal of Geophysical Research: Space Physics</i> , 2022, 127, .	2.4	1
85	Signatures of Auroral Potential Structure Extending Through the Near-Equatorial Inner Magnetosphere. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	1
86	DEVELOPMENT OF STORM-TIME PROTON TOTAL ENERGY BASED ON MULTIOBSERVATION OF NOAA SATELLITES. , 0, , 105-114.		0
87	Correction to: Review of the accomplishments of mid-latitude Super Dual Auroral Radar Network (SuperDARN) HF radars. <i>Progress in Earth and Planetary Science</i> , 2019, 6, .	3.0	0
88	ERG observations of drift echoes during a unique period of the satellite mission. <i>Earth, Planets and Space</i> , 2019, 71, .	2.5	0
89	Development of remote HF wave receiver in the backlobe direction of the SuperDARN Hokkaido East radar: Initial observations. <i>Polar Science</i> , 2021, 28, 100669.	1.2	0
90	S- M- I COUPLING DURING THE SUPER STORM ON 20-21 NOVEMBER 2003. , 2009, , 237-244.		0

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91	Poleward Moving Auroral Arcs and Pc5 Oscillations. Journal of Geophysical Research: Space Physics, 2022, 127, .	2.4	0