

# Toshihiko Iyemori

## List of Publications by Year in descending order

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44  
papers

1,171  
citations

471509

17  
h-index

377865

34  
g-index

44  
all docs

44  
docs citations

44  
times ranked

995  
citing authors

#	ARTICLE	IF	CITATIONS
1	Global distribution of magnetic ripples and electron density fluctuations as observed by the Swarm satellites on the dayside and their relation to the rainfall estimated by the GSMaP. <i>Earth, Planets and Space</i> , 2022, 74, .	2.5	1
2	Amplitude enhancement of short period GPS-TEC oscillations over rainfall area. <i>Earth, Planets and Space</i> , 2022, 74, .	2.5	1
3	A confirmation of vertical acoustic resonance and field-aligned current generation just after the 2022 Hunga Tonga Hunga Ha <sup>TM</sup> apai volcanic eruption. <i>Earth, Planets and Space</i> , 2022, 74, .	2.5	16
4	Importance of the Northward IMF for the Quasistatic Mesoscale Field <sup>TM</sup> -Aligned Currents Embedded in the Diminished Region 1/2 Current System in the Dusk Sector. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028774.	2.4	2
5	The Quasipersistent Feature of Highly Structured Field <sup>TM</sup> -Aligned Currents in the Duskside Auroral Oval: Conjugate Observation Via Swarm Satellites and a Ground All <sup>TM</sup> sky Imager. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA027594.	2.4	3
6	Magnetic ripples observed by Swarm satellites and their enhancement during typhoon activity. <i>Earth, Planets and Space</i> , 2017, 69, .	2.5	10
7	Localized field-aligned currents and 4-min TEC and ground magnetic oscillations during the 2015 eruption of Chile <sup>TM</sup> s Calbuco volcano. <i>Earth, Planets and Space</i> , 2016, 68, .	2.5	22
8	Confirmation of existence of the small-scale field-aligned currents in middle and low latitudes and an estimate of time scale of their temporal variation. <i>Geophysical Research Letters</i> , 2015, 42, 22-28.	4.0	21
9	Global and frequent appearance of small spatial scale field-aligned currents possibly driven by the lower atmospheric phenomena as observed by the CHAMP satellite in middle and low latitudes. <i>Earth, Planets and Space</i> , 2014, 66, .	2.5	16
10	Two <sup>TM</sup> -dimensional simulation of ionospheric variations in the vicinity of the epicenter of the Tohoku <sup>TM</sup> oki earthquake on 11 March 2011. <i>Geophysical Research Letters</i> , 2013, 40, 5009-5013.	4.0	45
11	Barometric and magnetic observations of vertical acoustic resonance and resultant generation of field-aligned current associated with earthquakes. <i>Earth, Planets and Space</i> , 2013, 65, 901-909.	2.5	8
12	Wp index: A new substorm index derived from high <sup>TM</sup> -resolution geomagnetic field data at low latitude. <i>Space Weather</i> , 2012, 10, .	3.7	47
13	Horizontal extension of acoustic resonance between the ground and the lower thermosphere. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2012, 75-76, 127-132.	1.6	17
14	Magnetic field depression at the Earth's surface during energetic neutral atom emission fade-out in the inner magnetosphere. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a.	3.3	1
15	Acoustic resonance and plasma depletion detected by GPS total electron content observation after the 2011 off the Pacific coast of Tohoku Earthquake. <i>Earth, Planets and Space</i> , 2011, 63, 863-867.	2.5	111
16	High <sup>TM</sup> -latitude reconnection effect observed at the dayside dip equator as a precursor of a sudden impulse. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	1
17	Excitation of 4 <sup>TM</sup> -min periodic ionospheric variations following the great Sumatra <sup>TM</sup> Andaman earthquake in 2004. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	60
18	A numerical simulation of ionospheric and atmospheric variations associated with the Sumatra earthquake on December 26, 2004. <i>Earth, Planets and Space</i> , 2007, 59, 1015-1026.	2.5	81

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19	Symplectic tracing of high-energy charged particles in the inner magnetosphere. Journal of Geophysical Research, 2007, 112, n/a-n/a.	3.3	0
20	Coupling of perturbations in the solar wind density to global Pi3 pulsations: A case study. Journal of Geophysical Research, 2007, 112, n/a-n/a.	3.3	12
21	Comparative study of Geomagnetic Sudden Commencement (SC) between Oersted and ground observations at different local times. Journal of Geophysical Research, 2007, 112, n/a-n/a.	3.3	7
22	Unusually quick development of a 4000 nT substorm during the initial 10 min of the 29 October 2003 magnetic storm. Journal of Geophysical Research, 2006, 111, .	3.3	10
23	Storm-time field-aligned currents on the nightside inferred from ground-based magnetic data at midlatitudes: Relationships with the interplanetary magnetic field and substorms. Journal of Geophysical Research, 2005, 110, .	3.3	14
24	Geomagnetic pulsations caused by the Sumatra earthquake on December 26, 2004. Geophysical Research Letters, 2005, 32, .	4.0	88
25	Statistics of Antarctic mesospheric echoes observed with the SuperDARN Syowa Radar. Geophysical Research Letters, 2004, 31, .	4.0	11
26	A comparative analysis of low-latitude Pi2 pulsations observed by Årsted and ground stations. Journal of Geophysical Research, 2004, 109, .	3.3	45
27	Local time distribution of net field-aligned currents derived from high-altitude satellite data. Journal of Geophysical Research, 2003, 108, .	3.3	18
28	Relationship between electric field and currents in the ionosphere and the geomagnetic Sq field. Journal of Geophysical Research, 2003, 108, .	3.3	24
29	Lower mantle conductivity anomalies estimated from geomagnetic jerks. Journal of Geophysical Research, 2003, 108, .	3.3	34
30	Antisunward net Birkeland current system deduced from the Oersted satellite observation. Journal of Geophysical Research, 2002, 107, SMP 26-1.	3.3	5
31	Seasonal and local time dependences of the interhemispheric field-aligned currents deduced from the Årsted satellite and the ground geomagnetic observations. Journal of Geophysical Research, 2002, 107, SIA 11-1.	3.3	42
32	Simultaneous measurement of duskside subauroral irregularities from the CUTLASS Finland radar and EISCAT UHF system. Journal of Geophysical Research, 2002, 107, SIA 11-1-SIA 11-14.	3.3	6
33	A magnetic cloud with unusual structure and corresponding bow shock movement observed on May 13, 1995. Geophysical Research Letters, 1998, 25, 3269-3272.	4.0	5
34	WIND, GEOTAIL, and GOES 9 observations of magnetic field dipolarization and bursty bulk flows in the near-tail. Geophysical Research Letters, 1997, 24, 971-974.	4.0	45
35	Observations of the Magnetosheath near the Nominal Tail Axis during the Geomagnetic Storm of January 25, 1993. Journal of Geomagnetism and Geoelectricity, 1996, 48, 577-588.	0.9	8
36	Solar and IMF Effects on Mid-Latitude Ionospheric Electric Fields and foF2.. Journal of Geomagnetism and Geoelectricity, 1996, 48, 1219-1232.	0.9	0

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37	Conjugate occurrence of the electric field fluctuations in the nighttime midlatitude ionosphere. Journal of Geophysical Research, 1995, 100, 21439-21451.	3.3	85
38	Auroral myriametric radiation observed By GEOTAIL. Geophysical Research Letters, 1994, 21, 2927-2930.	4.0	6
39	Universal Time Variations in the ap and Dst Indices and Their Possible Cause.. Journal of Geomagnetism and Geoelectricity, 1993, 45, 563-572.	0.9	10
40	Correlation between magnetic and electric field perturbations in the field-aligned current regions deduced from DE 2 observations. Journal of Geophysical Research, 1992, 97, 13877-13887.	3.3	65
41	Solar Wind-Magnetosphere Interaction during the Possible Encounter of Comet Halley's Tail in 1910 Inferred from Mid-Latitude Geomagnetic Field Disturbances.. Journal of Geomagnetism and Geoelectricity, 1991, 43, 783-795.	0.9	0
42	The nonlinear response of AE to the IMF $B_z$ driver: A spectral break at 5 hours. Geophysical Research Letters, 1990, 17, 279-282.	4.0	159
43	Ring current response to impulsive southward IMF: A cause of second development of the Dst index.. Journal of Geomagnetism and Geoelectricity, 1990, 42, 1325-1331.	0.9	7
44	Statistical distribution of abrupt magnetic field variations observed over the polar ionosphere.. Journal of Geomagnetism and Geoelectricity, 1986, 38, 823-835.	0.9	2