# Toshihiko Iyemori

List of Publications by Year
in descending order



| 44 | 1,171 | 471509 17 | 377865 34 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 44 | 44 | 44 | 995 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | The nonlinear response of AE to the IMF B<sub>S</sub> driver: A spectral break at 5 hours. Geophysical Research Letters, 1990, 17, 279-282. | 4.0 | 159 |
| 2 | Acoustic resonance and plasma depletion detected by GPS total electron content observation after the 2011 off the Pacific coast of Tohoku Earthquake. Earth, Planets and Space, 2011, 63, 863-867. | 2.5 | 111 |
| 3 | Geomagnetic pulsations caused by the Sumatra earthquake on December 26, 2004. Geophysical Research Letters, 2005, 32, . | 4.0 | 88 |
| 4 | Conjugate occurrence of the electric field fluctuations in the nighttime midlatitude ionosphere. Journal of Geophysical Research, 1995, 100, 21439-21451. | 3.3 | 85 |
| 5 | A numerical simulation of ionospheric and atmospheric variations associated with the Sumatra earthquake on December 26, 2004. Earth, Planets and Space, 2007, 59, 1015-1026. | 2.5 | 81 |
| 6 | Correlation between magnetic and electric field perturbations in the fieldâ€aligned current regions deduced from DE 2 observations. Journal of Geophysical Research, 1992, 97, 13877-13887. | 3.3 | 65 |
| 7 | Excitation of 4â€min periodic ionospheric variations following the great Sumatraâ€Andaman earthquake in 2004. Journal of Geophysical Research, 2009, 114, . | 3.3 | 60 |
| 8 | Wp index: A new substorm index derived from highâ€resolution geomagnetic field data at low latitude. Space Weather, 2012, 10, . | 3.7 | 47 |
| 9 | 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 |
| 10 | A comparative analysis of low-latitude Pi2 pulsations observed by Ã˜rsted and ground stations. Journal of Geophysical Research, 2004, 109, . | 3.3 | 45 |
| 11 | Twoâ€dimensional simulation of ionospheric variations in the vicinity of the epicenter of the Tohokuâ€oki earthquake on 11 March 2011. Geophysical Research Letters, 2013, 40, 5009-5013. | 4.0 | 45 |
| 12 | Seasonal and local time dependences of the interhemispheric field-aligned currents deduced from the Ã˜rsted satellite and the ground geomagnetic observations. Journal of Geophysical Research, 2002, 107, SIA 11-1. | 3.3 | 42 |
| 13 | Lower mantle conductivity anomalies estimated from geomagnetic jerks. Journal of Geophysical Research, 2003, 108, . | 3.3 | 34 |
| 14 | Relationship between electric field and currents in the ionosphere and the geomagnetic Sq field. Journal of Geophysical Research, 2003, 108, . | 3.3 | 24 |
| 15 | Localized field-aligned currents and 4-min TEC and ground magnetic oscillations during the 2015 eruption of Chileâ€™s Calbuco volcano. Earth, Planets and Space, 2016, 68, . | 2.5 | 22 |
| 16 | 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. Geophysical Research Letters, 2015, 42, 22-28. | 4.0 | 21 |
| 17 | Local time distribution of net field-aligned currents derived from high-altitude satellite data. Journal of Geophysical Research, 2003, 108, . | 3.3 | 18 |
| 18 | Horizontal extension of acoustic resonance between the ground and the lower thermosphere. Journal of Atmospheric and Solar-Terrestrial Physics, 2012, 75-76, 127-132. | 1.6 | 17 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | 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. Earth, Planets and Space, 2014, 66, . | 2.5 | 16 |
| 20 | A confirmation of vertical acoustic resonance and field-aligned current generation just after the 2022 Hunga Tonga Hunga Haâ€™apai volcanic eruption. Earth, Planets and Space, 2022, 74, . | 2.5 | 16 |
| 21 | 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 |
| 22 | 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 |
| 23 | Statistics of Antarctic mesospheric echoes observed with the SuperDARN Syowa Radar. Geophysical Research Letters, 2004, 31, . | 4.0 | 11 |
| 24 | 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 |
| 25 | Magnetic ripples observed by Swarm satellites and their enhancement during typhoon activity. Earth, Planets and Space, 2017, 69, . | 2.5 | 10 |
| 26 | 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 |
| 27 | Barometric and magnetic observations of vertical acoustic resonance and resultant generation of field-aligned current associated with earthquakes. Earth, Planets and Space, 2013, 65, 901-909. | 2.5 | 8 |
| 28 | 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 |
| 29 | 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 |
| 30 | 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 |
| 31 | Auroral myriametric radiation observed By GEOTAIL. Geophysical Research Letters, 1994, 21, 2927-2930. | 4.0 | 6 |
| 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 | Antisunward net Birkeland current system deduced from the Oersted satellite observation. Journal of Geophysical Research, 2002, 107, SMP 26-1. | 3.3 | 5 |
| 35 | The Quasipersistent Feature of Highly Structured Fieldâ€Aligned Currents in the Duskside Auroral Oval: Conjugate Observation Via Swarm Satellites and a Ground Allâ€Sky Imager. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027594. | 2.4 | 3 |
| 36 | Importance of the Northward IMF for the Quasistatic Mesoscale Fieldâ€Aligned Currents Embedded in the Diminished Region 1/2 Current System in the Dusk Sector. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA028774. | 2.4 | 2 |

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|---|---|---|---|
| 37 | Statistical distribution of abrupt magnetic field variations observed over the polar ionosphere.. Journal of Geomagnetism and Geoelectricity, 1986, 38, 823-835. | 0.9 | 2 |
| 38 | Highâ€latitude reconnection effect observed at the dayside dip equator as a precursor of a sudden impulse. Journal of Geophysical Research, 2010, 115, . | 3.3 | 1 |
| 39 | Magnetic field depression at the Earth's surface during energetic neutral atom emission fade-out in the inner magnetosphere. Journal of Geophysical Research, 2011, 116, n/a-n/a. | 3.3 | 1 |
| 40 | 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. Earth, Planets and Space, 2022, 74, . | 2.5 | 1 |
| 41 | Amplitude enhancement of short period GPS-TEC oscillations over rainfall area. Earth, Planets and Space, 2022, 74, . | 2.5 | 1 |
| 42 | Symplectic tracing of high-energy charged particles in the inner magnetosphere. Journal of Geophysical Research, 2007, 112, n/a-n/a. | 3.3 | 0 |
| 43 | 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 |
| 44 | Solar and IMF Effects on Mid-Latitude Ionospheric Electric Fields and foF2.. Journal of Geomagnetism and Geoelectricity, 1996, 48, 1219-1232. | 0.9 | 0 |