Masashi Hayakawa

List of Publications by Citations

Source: https://exaly.com/author-pdf/1077726/masashi-hayakawa-publications-by-citations.pdf

Version: 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

249 papers

4,989 citations

37 h-index 58 g-index

263 ext. papers

5,717 ext. citations

2.1 avg, IF

5.86 L-index

| # | Paper | IF | Citations |
|-----|--|----------------------|-----------|
| 249 | Results of ultra-low-frequency magnetic field measurements during the Guam Earthquake of 8 August 1993. <i>Geophysical Research Letters</i> , 1996 , 23, 241-244 | 4.9 | 202 |
| 248 | Thermal IR satellite data application for earthquake research in Japan and China. <i>Journal of Geodynamics</i> , 2002 , 33, 519-534 | 2.2 | 201 |
| 247 | Subionospheric VLF signal perturbations possibly related to earthquakes. <i>Journal of Geophysical Research</i> , 1998 , 103, 17489-17504 | | 175 |
| 246 | Generation of ULF electromagnetic emissions by microfracturing. <i>Geophysical Research Letters</i> , 1995 , 22, 3091-3094 | 4.9 | 133 |
| 245 | Fractal analysis of ULF geomagnetic data associated with the Guam Earthquake on August 8, 1993. <i>Geophysical Research Letters</i> , 1999 , 26, 2797-2800 | 4.9 | 108 |
| 244 | VLF/LF Radio Sounding of Ionospheric Perturbations Associated with Earthquakes. <i>Sensors</i> , 2007 , 7, 17 | 143 . 815 | 58105 |
| 243 | Middle latitude LF (40 kHz) phase variations associated with earthquakes for quiet and disturbed geomagnetic conditions. <i>Physics and Chemistry of the Earth</i> , 2004 , 29, 589-598 | 3 | 105 |
| 242 | A statistical study on the correlation between lower ionospheric perturbations as seen by subionospheric VLF/LF propagation and earthquakes. <i>Journal of Geophysical Research</i> , 2010 , 115, n/a-r | n/a | 102 |
| 241 | Electromagnetic anomalies associated with 1995 Kobe earthquake. <i>Journal of Geodynamics</i> , 2002 , 33, 401-411 | 2.2 | 100 |
| 240 | Monitoring of ULF (Ultra-Low-Frequency) Geomagnetic Variations Associated with Earthquakes. <i>Sensors</i> , 2007 , 7, 1108-1122 | 3.8 | 99 |
| 239 | Precursory effects in the subionospheric VLF signals for the Kobe earthquake. <i>Physics of the Earth and Planetary Interiors</i> , 1998 , 105, 239-248 | 2.3 | 97 |
| 238 | Lithosphere-atmosphere-ionosphere coupling as governing mechanism for preseismic short-term events in atmosphere and ionosphere. <i>Natural Hazards and Earth System Sciences</i> , 2004 , 4, 757-767 | 3.9 | 88 |
| 237 | On the generation mechanism of ULF seismogenic electromagnetic emissions. <i>Physics of the Earth and Planetary Interiors</i> , 1998 , 105, 201-210 | 2.3 | 85 |
| 236 | Current status of seismo-electromagnetics for short-term earthquake prediction. <i>Geomatics, Natural Hazards and Risk</i> , 2010 , 1, 115-155 | 3.6 | 79 |
| 235 | Interrelation between ELF transients and ionospheric disturbances in association with sprites and elves. <i>Geophysical Research Letters</i> , 2001 , 28, 935-938 | 4.9 | 70 |
| 234 | A statistical study on the effect of earthquakes on the ionosphere, based on the subionospheric LF propagation data in Japan. <i>Annales Geophysicae</i> , 2006 , 24, 2219-2225 | 2 | 61 |
| 233 | Observation of sprites over the Sea of Japan and conditions for lightning-induced sprites in winter. Journal of Geophysical Research, 2004 , 109, | | 60 |

(2001-2004)

| 232 | Summary report of NASDA's earthquake remote sensing frontier project. <i>Physics and Chemistry of the Earth</i> , 2004 , 29, 617-625 | 3 | 57 | |
|-----|---|-------|----|--|
| 231 | Anomalous effect in Schumann resonance phenomena observed in Japan, possibly associated with the Chi-chi earthquake in Taiwan. <i>Annales Geophysicae</i> , 2005 , 23, 1335-1346 | 2 | 54 | |
| 230 | Fractal analysis of seismogenic ULF emissions. <i>Physics and Chemistry of the Earth</i> , 2004 , 29, 419-424 | 3 | 51 | |
| 229 | Schumann Resonance for Tyros 2014 , | | 50 | |
| 228 | ULF geomagnetic anomaly associated with 2000 Izu Islands earthquake swarm, Japan. <i>Physics and Chemistry of the Earth</i> , 2004 , 29, 425-435 | 3 | 50 | |
| 227 | Ultra-low-frequency magnetic fields during the Guam earthquake of 8 August 1993 and their interpretation. <i>Physics of the Earth and Planetary Interiors</i> , 1998 , 105, 229-238 | 2.3 | 49 | |
| 226 | Multifractal analysis for the ULF geomagnetic data during the 1993 Guam earthquake. <i>Nonlinear Processes in Geophysics</i> , 2005 , 12, 157-162 | 2.9 | 49 | |
| 225 | 2015, | | 46 | |
| 224 | AGW as a seismo-ionospheric coupling responsible agent. <i>Physics and Chemistry of the Earth</i> , 2009 , 34, 485-495 | 3 | 46 | |
| 223 | Singular spectral analysis and principal component analysis for signal discrimination of ULF geomagnetic data associated with 2000 Izu Island Earthquake Swarm. <i>Physics and Chemistry of the Earth</i> , 2006 , 31, 281-291 | 3 | 46 | |
| 222 | Precursory behavior of fractal characteristics of the ULF electromagnetic fields in seismic active zones before strong earthquakes. <i>Physics and Chemistry of the Earth</i> , 2004 , 29, 445-451 | 3 | 46 | |
| 221 | Generation of Seismic-Related DC Electric Fields and Lithosphere-Atmosphere-Ionosphere Coupling. <i>Modern Applied Science</i> , 2013 , 7, | 1.3 | 44 | |
| 220 | Formation mechanism of the lower-ionospheric disturbances by the atmosphere electric current over a seismic region. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2006 , 68, 1260-1268 | 2 | 44 | |
| 219 | Evidence on a link between the intensity of Schumann resonance and global surface temperature. <i>Annales Geophysicae</i> , 2006 , 24, 1809-1817 | 2 | 44 | |
| 218 | ULF/ELF emissions observed in Japan, possibly associated with the Chi-Chi earthquake in Taiwan. <i>Natural Hazards and Earth System Sciences</i> , 2001 , 1, 37-42 | 3.9 | 42 | |
| 217 | Fractal properties of medium and seismoelectric phenomena. <i>Journal of Geodynamics</i> , 2002 , 33, 477-4. | 872.2 | 41 | |
| 216 | ULF/ELF magnetic field variations from atmosphere induced by seismicity. Radio Science, 2007, 42, | 1.4 | 39 | |
| 215 | Scaling characteristics of ULF geomagnetic fields at the Guam seismoactive area and their dynamics in relation to the earthquake. <i>Natural Hazards and Earth System Sciences</i> , 2001 , 1, 119-126 | 3.9 | 39 | |

| 214 | Meteorological effects in the lower ionosphere as based on VLF/LF signal observations. <i>Natural Hazards and Earth System Sciences</i> , 2014 , 14, 2671-2679 | 3.9 | 37 |
|-----|--|-----|----|
| 213 | Principal component analysis and singular spectrum analysis of ULF geomagnetic data associated with earthquakes. <i>Natural Hazards and Earth System Sciences</i> , 2005 , 5, 685-689 | 3.9 | 37 |
| 212 | Seismo-ionospheric depression of the ULF geomagnetic fluctuations at Kamchatka and Japan. <i>Physics and Chemistry of the Earth</i> , 2006 , 31, 313-318 | 3 | 36 |
| 211 | Fractal analysis for the ULF data during the 1993 Guam earthquake to study prefracture criticality. <i>Nonlinear Processes in Geophysics</i> , 2006 , 13, 409-412 | 2.9 | 36 |
| 210 | Ultra and Extremely Low Frequency Electromagnetic Fields 2014, | | 35 |
| 209 | Abnormal Gravity Wave Activity in the Stratosphere Prior to the 2016 Kumamoto Earthquakes. <i>Journal of Geophysical Research: Space Physics</i> , 2019 , 124, 1410-1425 | 2.6 | 33 |
| 208 | Probing the lower ionospheric perturbations associated with earthquakes by means of subionospheric VLF/LF propagation. <i>Earthquake Science</i> , 2011 , 24, 609-637 | 1.5 | 33 |
| 207 | Criticality features in ULF magnetic fields prior to the 2011 Tohoku earthquake. <i>Proceedings of the Japan Academy Series B: Physical and Biological Sciences</i> , 2015 , 91, 25-30 | 4 | 32 |
| 206 | LOCATION AND ELECTRICAL PROPERTIES OF SPRITE-PRODUCING LIGHTNING FROM A SINGLE ELF SITE 2006 , 211-235 | | 31 |
| 205 | Anomalous ELF phenomena in the Schumann resonance band as observed at Moshiri (Japan) in possible association with an earthquake in Taiwan. <i>Natural Hazards and Earth System Sciences</i> , 2008 , 8, 1309-1316 | 3.9 | 30 |
| 204 | Survey of anomalous Schumann resonance phenomena observed in Japan, in possible association with earthquakes in Taiwan. <i>Physics and Chemistry of the Earth</i> , 2006 , 31, 397-402 | 3 | 30 |
| 203 | Fractal analysis of the ULF geomagnetic data obtained at Izu Peninsula, Japan in relation to the nearby earthquake swarm of JuneAugust 2000. <i>Natural Hazards and Earth System Sciences</i> , 2003 , 3, 229-236 | 3.9 | 30 |
| 202 | The ULF/ELF electromagnetic radiation before the 11 March 2011 Japanese earthquake. <i>Radio Science</i> , 2013 , 48, 589-596 | 1.4 | 29 |
| 201 | Computer simulations on sprite initiation for realistic lightning models with higher-frequency surges. <i>Journal of Geophysical Research</i> , 2009 , 114, n/a-n/a | | 29 |
| 200 | Further study on the role of atmospheric gravity waves on the seismo-ionospheric perturbations as detected by subionospheric VLF/LF propagation. <i>Natural Hazards and Earth System Sciences</i> , 2009 , 9, 1111-1118 | 3.9 | 29 |
| 199 | On the statistical correlation between the ionospheric perturbations as detected by subionospheric VLF/LF propagation anomalies and earthquakes. <i>Natural Hazards and Earth System Sciences</i> , 2008 , 8, 653-656 | 3.9 | 29 |
| 198 | Ionospheric disturbances caused by SGR 1900+14 giant gamma ray flare in 1998: Constraints on the energy spectrum of the flare. <i>Journal of Geophysical Research</i> , 2008 , 113, n/a-n/a | | 28 |
| 197 | Pre-earthquake ULF electromagnetic perturbations as a result of inductive seismomagnetic phenomena during microfracturing. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2003 , 65, 31-46 | 5 2 | 28 |

| 196 | The lower ionospheric perturbation as a precursor to the 11 March 2011 Japan earthquake. <i>Geomatics, Natural Hazards and Risk</i> , 2013 , 4, 275-287 | 3.6 | 27 |
|-----|---|------------|----|
| 195 | Does Schumann resonance affect our blood pressure?. <i>Biomedicine and Pharmacotherapy</i> , 2005 , 59 Suppl 1, S10-4 | 7.5 | 27 |
| 194 | Finite difference analyses of Schumann resonance and reconstruction of lightning distribution. <i>Radio Science</i> , 2005 , 40, n/a-n/a | 1.4 | 27 |
| 193 | Atmospheric gravity waves as a possible candidate for seismo-ionospheric perturbations. <i>Journal of Atmospheric Electricity</i> , 2011 , 31, 129-140 | 0.1 | 26 |
| 192 | The ionospheric perturbations associated with Asian earthquakes as seen from the subionospheric propagation from NWC to Japanese stations. <i>Natural Hazards and Earth System Sciences</i> , 2010 , 10, 581- | 588 | 25 |
| 191 | Computer simulations on the initiation and morphological difference of Japan winter and summer sprites. <i>Journal of Geophysical Research</i> , 2008 , 113, n/a-n/a | | 25 |
| 190 | Global Lightning Activity on the Basis of Inversions of Natural ELF Electromagnetic Data Observed at Multiple Stations around the World. <i>Surveys in Geophysics</i> , 2011 , 32, 705-732 | 7.6 | 24 |
| 189 | Variations of the global lightning distribution revealed from three-station Schumann resonance measurements. <i>Journal of Geophysical Research</i> , 2010 , 115, n/a-n/a | | 24 |
| 188 | Characteristics of Japanese winter sprites and their parent lightning as estimated by VHF lightning and ELF transients. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2007 , 69, 1431-1446 | 2 | 24 |
| 187 | Model modifications in Schumann resonance intensity caused by a localized ionosphere disturbance over the earthquake epicenter. <i>Annales Geophysicae</i> , 2006 , 24, 567-575 | 2 | 24 |
| 186 | FDTD analysis of ELF wave propagation and Schumann resonances for a subionospheric waveguide model. <i>Radio Science</i> , 2003 , 38, n/a-n/a | 1.4 | 24 |
| 185 | Intermittent criticality revealed in ULF magnetic fields prior to the 11 March 2011 Tohoku earthquake (MW=9). <i>Physica A: Statistical Mechanics and Its Applications</i> , 2016 , 452, 19-28 | 3.3 | 23 |
| 184 | Criticality Analysis of the Lower Ionosphere Perturbations Prior to the 2016 Kumamoto (Japan) Earthquakes as Based on VLF Electromagnetic Wave Propagation Data Observed at Multiple Stations. <i>Entropy</i> , 2018 , 20, | 2.8 | 23 |
| 183 | Underlying mechanisms of transient luminous events: a review. <i>Annales Geophysicae</i> , 2012 , 30, 1185-12 | 1 <u>2</u> | 23 |
| 182 | How do winter thundercloud systems generate sprite-inducing lightning in the Hokuriku area of Japan?. <i>Geophysical Research Letters</i> , 2006 , 33, n/a-n/a | 4.9 | 23 |
| 181 | Near-seismic effects in ULF fields and seismo-acoustic emission: statistics and explanation. <i>Natural Hazards and Earth System Sciences</i> , 2005 , 5, 1-10 | 3.9 | 23 |
| 180 | Heating of the lower ionosphere electrons by electromagnetic radiation of lightning discharges. <i>Geophysical Research Letters</i> , 1995 , 22, 3015-3018 | 4.9 | 23 |
| 179 | Tsunami-induced phase and amplitude perturbations of subionospheric VLF signals. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a | | 22 |

| 178 | A study on the radiation loss from a bent transmission line. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2001 , 43, 618-621 | 2 | 22 |
|-----|---|-----|----|
| 177 | Anomalous excitation of Schumann resonances and additional anomalous resonances before the 2004 Mid-Niigata prefecture earthquake and the 2007 Noto Hantou Earthquake. <i>Physics and Chemistry of the Earth</i> , 2009 , 34, 441-448 | 3 | 21 |
| 176 | On the correlation between ionospheric perturbations as detected by subionospheric VLF/LF signals and earthquakes as characterized by seismic intensity. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2010 , 72, 982-987 | 2 | 21 |
| 175 | Solar flare induced D region perturbation in the ionosphere, as revealed from a short-distance VLF propagation path. <i>Geophysical Research Letters</i> , 2007 , 34, | 4.9 | 21 |
| 174 | Fractal characteristics of the ground-observed ULF emissions in relation to geomagnetic and seismic activities. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2007 , 69, 1833-1841 | 2 | 20 |
| 173 | Principal component analysis of ULF geomagnetic data for Izu islands earthquakes in July 2000. Journal of Atmospheric Electricity, 2002 , 22, 1-12 | 0.1 | 20 |
| 172 | Amplitude variations of ELF radio waves in the Earth Donosphere cavity with the day Bight non-uniformity. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2018 , 169, 23-36 | 2 | 19 |
| 171 | The Ionospheric Precursor to the 2011 March 11 Earthquake Based upon Observations Obtained from the Japan-Pacific Subionospheric VLF/LF Network. <i>Terrestrial, Atmospheric and Oceanic Sciences</i> , 2013 , 24, 393 | 1.8 | 19 |
| 170 | About possibility to locate an EQ epicenter using parameters of ELF/ULF preseismic emission. <i>Natural Hazards and Earth System Sciences</i> , 2008 , 8, 1237-1242 | 3.9 | 19 |
| 169 | Natural time analysis on the ultra-low frequency magnetic field variations prior to the 2016 Kumamoto (Japan) earthquakes. <i>Journal of Asian Earth Sciences</i> , 2018 , 154, 419-427 | 2.8 | 18 |
| 168 | Q-Bursts: Natural ELF Radio Transients. Surveys in Geophysics, 2010, 31, 409-425 | 7.6 | 18 |
| 167 | Beam-plasma instability in inhomogeneous magnetic field and second order cyclotron resonance effects. <i>Physics of Plasmas</i> , 1999 , 6, 692-698 | 2.1 | 18 |
| 166 | Vertical profile of atmospheric conductivity that matches Schumann resonance observations. <i>SpringerPlus</i> , 2016 , 5, 108 | | 17 |
| 165 | The ultra-low-frequency magnetic disturbances associated with earthquakes. <i>Earthquake Science</i> , 2011 , 24, 523-534 | 1.5 | 17 |
| 164 | Interpretation in terms of gyrotropic waves of Schumann-resonance-like line emissions observed at Nakatsugawa in possible association with nearby Japanese earthquakes. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2010 , 72, 1292-1298 | 2 | 16 |
| 163 | On the fine structure of thunderstorms leading to the generation of sprites and elves: Fractal analysis. <i>Journal of Geophysical Research</i> , 2005 , 110, n/a-n/a | | 16 |
| 162 | New ELF Observation System at Moshiri, Japan and Assessments of Acquired Data. <i>Journal of Atmospheric Electricity</i> , 2005 , 25, 29-39 | 0.1 | 16 |
| 161 | On the precursors to the 2011 Tohoku earthquake: crustal movements and electromagnetic signatures. <i>Geomatics, Natural Hazards and Risk</i> , 2016 , 7, 471-492 | 3.6 | 15 |

(1998-2017)

| 160 | earthquake (M W = 9): discriminating possible earthquake precursors from space-sourced disturbances. <i>Natural Hazards</i> , 2017 , 85, 59-86 | 3 | 15 |
|-----|--|-----|----|
| 159 | Three-dimensional EM computer simulation on sprite initiation above a horizontal lightning discharge. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2009 , 71, 983-990 | 2 | 15 |
| 158 | ELF sub-ionospheric pulse in time domain. <i>Geophysical Research Letters</i> , 1999 , 26, 999-1002 | 4.9 | 15 |
| 157 | Subionospheric VLF/LF Probing of Ionospheric Perturbations Associated with Earthquakes: A Possibility of Earthquake Prediction. <i>SICE Journal of Control Measurement and System Integration</i> , 2010 , 3, 10-14 | 0.3 | 15 |
| 156 | Comparison of time delays of sprites induced by winter lightning flashes in the Japan Sea with those in the Pacific Ocean. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2009 , 71, 101-111 | 2 | 14 |
| 155 | The effect of a gamma ray flare on Schumann resonances. <i>Annales Geophysicae</i> , 2012 , 30, 1321-1329 | 2 | 14 |
| 154 | Identification of electric circuits described by ill-conditioned mathematical models. <i>IEEE Transactions on Circuits and Systems Part 1: Regular Papers</i> , 2006 , 53, 78-91 | | 14 |
| 153 | Ultra-Low-Frequency Electromagnetic Emissions Associated with Earthquakes. <i>IEEJ Transactions on Fundamentals and Materials</i> , 2004 , 124, 1101-1108 | 0.2 | 14 |
| 152 | The modelling of VLF Trimpis using both finite element and 3D Born Modelling. <i>Geophysical Research Letters</i> , 1998 , 25, 4453-4456 | 4.9 | 14 |
| 151 | Variations in global thunderstorm activity inferred from the OTD records. <i>Geophysical Research Letters</i> , 2006 , 33, | 4.9 | 13 |
| 150 | Phase-bunching effects in triggered VLF emissions: Antenna effect. <i>Journal of Geophysical Research</i> , 2003 , 108, | | 13 |
| 149 | On the lithosphere-atmosphere coupling of seismo-electromagnetic signals. <i>Radio Science</i> , 2003 , 38, n/a-n/a | 1.4 | 13 |
| 148 | New ELF Observation Site in Moshiri, Hokkaido Japan and the Results of Preliminary Data Analysis. Journal of Atmospheric Electricity, 2000 , 20, 99-109 | 0.1 | 13 |
| 147 | Pre-Seismic Irregularities during the 2020 Samos (Greece) Earthquake (M = 6.9) as Investigated from Multi-Parameter Approach by Ground and Space-Based Techniques. <i>Atmosphere</i> , 2021 , 12, 1059 | 2.7 | 13 |
| 146 | An evidence on the lithosphere-ionosphere coupling in terms of atmospheric gravity waves on the basis of a combined analysis of surface pressure, ionospheric perturbations and ground-based ULF variations. <i>Journal of Atmospheric Electricity</i> , 2013 , 33, 53-68 | 0.1 | 12 |
| 145 | Deembedding and unterminating microwave fixtures with the genetic algorithm. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2006 , 54, 3131-3140 | 4.1 | 12 |
| 144 | Theoretical analysis on the penetration of power line harmonic radiation into the ionosphere. <i>Radio Science</i> , 2002 , 37, 5-1-5-12 | 1.4 | 12 |
| 143 | Natural electromagnetic pulses in the ELF range. <i>Geophysical Research Letters</i> , 1998 , 25, 3103-3106 | 4.9 | 12 |

| 142 | A Review on Electrodynamic Influence of Atmospheric Processes to the Ionosphere. <i>Open Journal of Earthquake Research</i> , 2020 , 09, 113-141 | 0.8 | 12 |
|-----|---|----------------------------------|----|
| 141 | Intermittency-induced criticality in the lower ionosphere prior to the 2016 Kumamoto earthquakes as embedded in the VLF propagation data observed at multiple stations. <i>Tectonophysics</i> , 2018 , 722, 42 | 2- 4 : 1 1 | 12 |
| 140 | On Possible Electromagnetic Precursors to a Significant Earthquake (Mw = 6.3) Occurred in Lesvos (Greece) on 12 June 2017. <i>Entropy</i> , 2019 , 21, | 2.8 | 11 |
| 139 | Natural Time Analysis of Global Navigation Satellite System Surface Deformation: The Case of the 2016 Kumamoto Earthquakes. <i>Entropy</i> , 2020 , 22, | 2.8 | 11 |
| 138 | Very-Low- to Low-Frequency Sounding of Ionospheric Perturbations and Possible Association with Earthquakes. <i>Geophysical Monograph Series</i> , 2018 , 275-304 | 1.1 | 11 |
| 137 | ULF Magnetic Field Depression as a Possible Precursor to the 2011/3.11 Japan Earthquake. <i>Journal of Atmospheric Electricity</i> , 2013 , 33, 41-51 | 0.1 | 11 |
| 136 | Detection of transient ELF emission caused by the extremely intense cosmic gamma-ray flare of 27 December 2004. <i>Geophysical Research Letters</i> , 2011 , 38, n/a-n/a | 4.9 | 11 |
| 135 | On the generation of narrow-banded ULF/ELF pulsations in the lower ionospheric conducting layer. <i>Journal of Geophysical Research</i> , 2008 , 113, n/a-n/a | | 11 |
| 134 | Cellular automaton modeling of mesospheric optical emissions: Sprites. <i>Physics of Plasmas</i> , 2007 , 14, 042902 | 2.1 | 11 |
| 133 | Determination of hearth position of a forthcoming strong EQ using gradients and phase velocities of ULF geomagnetic disturbances. <i>Physics and Chemistry of the Earth</i> , 2006 , 31, 292-298 | 3 | 11 |
| 132 | Relation between the energy of earthquake swarm and the Hurst exponent of random variations of the geomagnetic field. <i>Physics and Chemistry of the Earth</i> , 2004 , 29, 379-387 | 3 | 11 |
| 131 | Schumann resonance observation in China and anomalous disturbance possibly associated with Tohoku M9.0 earthquake. <i>Earthquake Science</i> , 2013 , 26, 137-145 | 1.5 | 10 |
| 130 | Seismo-meteo-electromagnetic phenomena observed during a 5-year interval around the 2011 Tohoku earthquake. <i>Physics and Chemistry of the Earth</i> , 2015 , 85-86, 167-173 | 3 | 10 |
| 129 | The observation of Doppler shifts of subionospheric LF signal in possible association with earthquakes. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a | | 10 |
| 128 | Over-the-Horizon Anomalous VHF Propagation and Earthquake Precursors. <i>Surveys in Geophysics</i> , 2012 , 33, 1081-1106 | 7.6 | 10 |
| 127 | Schumann resonances excitation due to positive and negative cloud-to-ground lightning. <i>Journal of Geophysical Research</i> , 2010 , 115, | | 10 |
| 126 | Interferometric direction finding of over-horizon VHF transmitter signals and natural VHF radio emissions possibly associated with earthquakes. <i>Radio Science</i> , 2009 , 44, n/a-n/a | 1.4 | 10 |
| 125 | Use of generalized cross validation for identification of global lightning distribution by using Schumann resonances. <i>Radio Science</i> , 2007 , 42, n/a-n/a | 1.4 | 10 |

| 1 | 24 | Gravity Wave Activity in the Stratosphere before the 2011 Tohoku Earthquake as the Mechanism of Lithosphere-atmosphere-ionosphere Coupling. <i>Entropy</i> , 2020 , 22, | 2.8 | 10 | |
|----|------------|--|------------------|----|--|
| 1: | 23 | Propagation of Extremely Low-Frequency Radio Waves 2016 , 1-20 | | 10 | |
| 1 | 22 | Earthquake prediction with electromagnetic phenomena 2016, | | 10 | |
| 1 | 21 | Knee model: Comparison between heuristic and rigorous solutions for the Schumann resonance problem. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2015 , 135, 85-91 | 2 | 9 | |
| 1: | 2 0 | Progress in the Study of Transient Luminous and Atmospheric Events: A Review. <i>Surveys in Geophysics</i> , 2020 , 41, 1101-1142 | 7.6 | 9 | |
| 1: | 19 | The origin of spectral resonance structures of the ionospheric AlfvB resonator. Single high-altitude reflection or resonant cavity excitation?. <i>Journal of Geophysical Research: Space Physics</i> , 2014 , 119, 3117-3129 | 2.6 | 9 | |
| 1: | 18 | Possible Electromagnetic Effects on Abnormal Animal Behavior Before an Earthquake. <i>Animals</i> , 2013 , 3, 19-32 | 3.1 | 9 | |
| 1: | 17 | Universal and local time variations deduced from simultaneous Schumann resonance records at three widely separated observatories. <i>Radio Science</i> , 2011 , 46, n/a-n/a | 1.4 | 9 | |
| 1: | 16 | The Design of Radio Maps in Tokyo City Based on Stochastic Multi-Parametric and Deterministic Ray-Tracing Approaches [Wireless Corner]. <i>IEEE Antennas and Propagation Magazine</i> , 2009 , 51, 200-208 | 1.7 | 9 | |
| 1: | 15 | Application of different signal analysis methods to the ULF data for the 1993 Guam earthquake. <i>Natural Hazards and Earth System Sciences</i> , 2007 , 7, 479-484 | 3.9 | 9 | |
| 1: | 14 | The Importance of Direction Finding Technique for the Study of VLF/ELF Sferics and Whistlers. <i>IEEJ Transactions on Fundamentals and Materials</i> , 2006 , 126, 65-70 | 0.2 | 9 | |
| 1: | 13 | Investigation of ULF magnetic anomaly during Izu earthquake swarm and Miyakejima volcano eruption at summer 2000, Japan. <i>Natural Hazards and Earth System Sciences</i> , 2005 , 5, 63-69 | 3.9 | 9 | |
| 1: | 12 | Seismogenic Effects in the ELF Schumann Resonance Band. <i>IEEJ Transactions on Fundamentals and Materials</i> , 2011 , 131, 684-690 | 0.2 | 9 | |
| 1: | 11 | ULF/ELF Atmospheric Radiation in Possible Association to the 2011 Tohoku Earthquake as Observed in China. <i>Earth Science Research</i> , 2016 , 5, 47 | | 9 | |
| 1 | 10 | On precursory ULF/ELF electromagnetic signatures for the Kobe earthquake on April 12, 2013. Journal of Asian Earth Sciences, 2015 , 114, 305-311 | 2.8 | 8 | |
| 10 | 09 | Detection of tsunami-driven phase and amplitude perturbations of subionospheric VLF signals following the 2010 Chile earthquake. <i>Journal of Geophysical Research: Space Physics</i> , 2014 , 119, 5012-50 | 179 ⁶ | 8 | |
| 10 | 08 | Measurement of Doppler shifts of short-distance subionospheric LF transmitter signals and seismic effects. <i>Journal of Geophysical Research</i> , 2011 , 116, n/a-n/a | | 8 | |
| 1 | 07 | Electromagnetic Phenomena Associated with Earthquakes. <i>IEEJ Transactions on Fundamentals and Materials</i> , 2006 , 126, 211-214 | 0.2 | 8 | |

| 106 | Time domain presentation for ELF pulses with accelerated convergence. <i>Geophysical Research Letters</i> , 2004 , 31, n/a-n/a | 4.9 | 8 |
|-----|---|-----|---|
| 105 | Use of wavelet analysis for detection of seismogenic ULF emissions. <i>Radio Science</i> , 2003 , 38, n/a-n/a | 1.4 | 8 |
| 104 | COMPARISON OF EXACT AND APPROXIMATE SOLUTIONS OF THE SCHUMANN RESONANCE PROBLEM FOR THE KNEE CONDUCTIVITY PROFILE. <i>Telecommunications and Radio Engineering (English Translation of Elektrosvyaz and Radiotekhnika)</i> , 2015 , 74, 1377-1390 | 1.8 | 8 |
| 103 | Tsunami-driven ionospheric perturbations associated with the 2011 Tohoku earthquake as detected by subionospheric VLF signals. <i>Geomatics, Natural Hazards and Risk</i> , 2014 , 5, 285-292 | 3.6 | 7 |
| 102 | Localized ionospheric disturbance over the earthquake epicentre and modifications of Schumann resonance electromagnetic fields. <i>Geomatics, Natural Hazards and Risk</i> , 2014 , 5, 271-283 | 3.6 | 7 |
| 101 | Fractal analysis of ULF electromagnetic emissions in possible association with earthquakes in China. <i>Nonlinear Processes in Geophysics</i> , 2012 , 19, 577-583 | 2.9 | 7 |
| 100 | Q-bursts: A comparison of experimental and computed ELF waveforms. <i>Radio Science</i> , 2008 , 43, n/a-n/a | 1.4 | 7 |
| 99 | The Solutions of LCD Panel (T-Con) EMI Noise for Wireless Integration 2007, | | 7 |
| 98 | Cyclotron amplification of whistler waves by nonstationary electron beams in an inhomogeneous magnetic field. <i>Physics of Plasmas</i> , 2000 , 7, 5153-5158 | 2.1 | 7 |
| 97 | Characteristics of mid-latitude whistler ducts as deduced from ground-based measurements. Geophysical Research Letters, 1996 , 23, 3301-3304 | 4.9 | 7 |
| 96 | VERTICAL PROFILE OF ATMOSPHERIC CONDUCTIVITY CORRESPONDING TO SCHUMANN RESONANCE PARAMETERS. <i>Telecommunications and Radio Engineering (English Translation of Elektrosvyaz and Radiotekhnika</i>), 2015 , 74, 1483-1495 | 1.8 | 7 |
| 95 | Seismogenic effects in ULF/ELF/VLF electromagnetic waves 2019 , 06, 1-86 | | 7 |
| 94 | Electromagnetic Precursors to the 2016 Kumamoto Earthquakes. <i>Open Journal of Earthquake Research</i> , 2017 , 06, 168-179 | 0.8 | 7 |
| 93 | Short-term earthquake prediction in Kamchatka using low-frequency magnetic fields. <i>Natural Hazards</i> , 2020 , 100, 735-755 | 3 | 7 |
| 92 | Analysis of the ultra-low frequency magnetic field fluctuations prior to the 2016 Kumamoto (Japan) earthquakes in terms of the method of critical fluctuations. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2019 , 514, 563-572 | 3.3 | 7 |
| 91 | A study of the morphology of winter sprites in the Hokuriku area of Japan in relation to cloud charge height. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2009 , 71, 597-602 | 2 | 6 |
| 90 | ULF electromagnetic noise due to random variations of background atmospheric current and conductivity. <i>Journal of Geophysical Research</i> , 2007 , 112, | | 6 |
| 89 | Characteristic of subionospheric VLF perturbations associated with winter lightning around Japan. <i>Geophysical Research Letters</i> , 2004 , 31, | 4.9 | 6 |

| 88 | Identification of electric circuits: problems and methods of solution accuracy enhancement | | 6 |
|----|--|-----|---|
| 87 | Acousto-Optic Solitons in Fibers. <i>Optical Review</i> , 2000 , 7, 323-325 | 0.9 | 6 |
| 86 | Contaminated Effect of Geomagnetic Storms on Pre-Seismic Atmospheric and Ionospheric Anomalies during Imphal Earthquake. <i>Open Journal of Earthquake Research</i> , 2020 , 09, 383-402 | 0.8 | 6 |
| 85 | Evidence of critical dynamics in various electromagnetic precursors. <i>European Physical Journal:</i> Special Topics, 2021 , 230, 151-177 | 2.3 | 6 |
| 84 | Modifications of Middle Atmosphere Conductivity During Sudden Ionospheric Disturbances Deduced From Changes of Schumann Resonance Peak Frequencies. <i>Radio Science</i> , 2018 , 53, 670-682 | 1.4 | 6 |
| 83 | Earthquake Precursor Studies in Japan. <i>Geophysical Monograph Series</i> , 2018 , 7-18 | 1.1 | 5 |
| 82 | Scattering of ELF radio waves by a localized non-uniformity in the lower ionosphere. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2019 , 194, 105093 | 2 | 5 |
| 81 | Spectra and waveforms of ELF transients in the Earth-ionosphere cavity with small losses. <i>Radio Science</i> , 2014 , 49, 118-130 | 1.4 | 5 |
| 80 | Impact of a gamma-ray burst on the Schumann resonance. <i>Radiophysics and Quantum Electronics</i> , 2011 , 53, 542-556 | 0.7 | 5 |
| 79 | Reception of ELF transmitter signals at Moshiri, Japan, and their propagation characteristics. <i>Radio Science</i> , 2010 , 45, n/a-n/a | 1.4 | 5 |
| 78 | FDTD Analysis of ELF Wave Propagation for Realistic Subionospheric Waveguide Models. <i>IEEJ Transactions on Fundamentals and Materials</i> , 2004 , 124, 1203-1209 | 0.2 | 5 |
| 77 | Three-dimensional subionospheric VLF field diffraction by a truncated highly conducting cylinder and its application to the Trimpi effect problem. <i>Radio Science</i> , 2002 , 37, 12-1-12-15 | 1.4 | 5 |
| 76 | On the Tempo-Spatial Evolution of the Lower Ionospheric Perturbation for the 2016 Kumamoto Earthquakes from Comparisons of VLF Propagation Data Observed at Multiple Stations with Wave-Hop Theoretical Computations. <i>Open Journal of Earthquake Research</i> , 2018 , 07, 161-185 | 0.8 | 5 |
| 75 | Formation of Ionospheric Precursors of Earthquakes P robable Mechanism and Its Substantiation. <i>Open Journal of Earthquake Research</i> , 2020 , 09, 142-169 | 0.8 | 5 |
| 74 | Anomaly disturbances of the magnetic fields before the strong earthquake in Japan on March 11, 2011. <i>Annals of Geophysics</i> , 2012 , 55, | 1.1 | 5 |
| 73 | Impact of the Ionospheric DayNight Non-Uniformity on the ELF Radio-Wave Propagation. <i>Radiophysics and Quantum Electronics</i> , 2018 , 61, 176-191 | 0.7 | 5 |
| 72 | Electromagnetic manifestations of Tonga eruption in Schumann resonance band. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2022 , 105897 | 2 | 5 |
| 71 | A Review on Direction Finding of VLF/ELF Sferics. <i>Journal of Atmospheric Electricity</i> , 2009 , 29, 35-52 | 0.1 | 4 |

| 70 | Estimation of lightning and sprite parameters based on observation of sprite-producing lightning power spectra. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2010 , 72, 448-456 | 2 | 4 |
|----|--|-------------------------------|---|
| 69 | An analysis of excitation of magnetostatic surface waves in an in-plane magnetized YIG film by the integral kernel expansion method. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2003 , 51, 492 | - 4 9 9 | 4 |
| 68 | The effect of subionospheric propagation on whistlers as deduced from direction finding measurements. <i>Geophysical Research Letters</i> , 1994 , 21, 89-92 | 4.9 | 4 |
| 67 | A note on the correlation of seismo-ionospheric perturbations with ground motions as deduced from F-net seismic observations. <i>Journal of Atmospheric Electricity</i> , 2013 , 33, 69-76 | 0.1 | 4 |
| 66 | The effect of a compact ionosphere disturbance over the earthquake: A Focus on Schumann resonance 2018 , 5, 11-39 | | 4 |
| 65 | On the ionospheric perturbation for the 1995 Kobe earthquake: revisited. <i>Geomatics, Natural Hazards and Risk,</i> 2016 , 7, 278-286 | 3.6 | 3 |
| 64 | Statistical Evaluations of Variations in Dairy Cows' Milk Yields as a Precursor of Earthquakes. <i>Animals</i> , 2017 , 7, | 3.1 | 3 |
| 63 | On the Ultra-Low-Frequency Magnetic Field Depression for Three Huge Oceanic Earthquakes in Japan and in the Kurile Islands. <i>Earth Science Research</i> , 2012 , 2, | | 3 |
| 62 | Spectral Properties of Modulated Signal in the Doppler Domain in Urban Radio Channels With Fading. <i>IEEE Transactions on Antennas and Propagation</i> , 2010 , 58, 2795-2800 | 4.9 | 3 |
| 61 | A new type of mid-latitude multi-path whistler trains including a non-ducted whistler. <i>Geophysical Research Letters</i> , 1997 , 24, 2937-2940 | 4.9 | 3 |
| 60 | Signal power distribution in time delay in Tokyo City experimental sites. <i>Radio Science</i> , 2008 , 43, n/a-n/a | 1.4 | 3 |
| 59 | Natural electromagnetic ULF noise due to fluctuations of ionospheric currents. <i>Journal of Geophysical Research</i> , 2008 , 113, n/a-n/a | | 3 |
| 58 | Multifractal Analysis for the ULF Geomagnetic Data during the Guam Earthquake. <i>IEEJ Transactions on Fundamentals and Materials</i> , 2006 , 126, 215-219 | 0.2 | 3 |
| 57 | Numerical Aspects in the Calculation of the Transient Lightning Electromagnetic Radiation Over Lossy Ground. <i>IEEJ Transactions on Fundamentals and Materials</i> , 2004 , 124, 67-71 | 0.2 | 3 |
| 56 | Transmission characteristics of VLF/ELF radio waves through the Jovian ionosphere. <i>Geophysical Research Letters</i> , 1993 , 20, 2435-2438 | 4.9 | 3 |
| 55 | Analysis on Subaerial Electric Field Radiated by a Unit Electric Current Source in the Ground. <i>IEEJ Transactions on Fundamentals and Materials</i> , 2005 , 125, 591-595 | 0.2 | 3 |
| 54 | ANOMALOUS SUBSURFACE VLF ELECTRIC FIELD CHANGES ASSOCIATED WITH EARTHQUAKES AND NUCLEAR EXPLOSIONS OBSERVED AT AGRA. <i>Journal of Atmospheric Electricity</i> , 1999 , 19, 119-134 | 0.1 | 3 |
| 53 | Fractal ULF signatures related to seismic processes. <i>Journal of Atmospheric Electricity</i> , 2009 , 29, 81-93 | 0.1 | 3 |

| 52 | A study on global temperature and thunderstorm activity by using the data of Schumann resonance observed at Nakatsugawa, Japan. <i>Journal of Atmospheric Electricity</i> , 2011 , 31, 111-119 | 0.1 | 3 |
|----|---|-----|---|
| 51 | Scattering of Extremely Low Frequency Electromagnetic Waves by a Localized Seismogenic Ionospheric Perturbation: Observation and Interpretation. <i>Radio Science</i> , 2020 , 55, e2020RS007130 | 1.4 | 3 |
| 50 | Numerical simulation of lower ionospheric reflection parameters by using International Reference Ionosphere (IRI) model and validation with Very Low Frequency (VLF) radio signal characteristics. <i>Advances in Space Research</i> , 2021 , 67, 1599-1611 | 2.4 | 3 |
| 49 | Statistical and Criticality Analysis of the Lower Ionosphere Prior to the 30 October 2020 Samos (Greece) Earthquake (M6.9), Based on VLF Electromagnetic Propagation Data as Recorded by a New VLF/LF Receiver Installed in Athens (Greece). <i>Entropy</i> , 2021 , 23, | 2.8 | 3 |
| 48 | Source Bearing of Extremely Low Frequency (ELF) Waves in the Earth-Ionosphere Cavity With Day-Night Nonuniformity. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018 , 123, 10,895-10,910 | 4.4 | 3 |
| 47 | Unusual Surface Latent Heat Flux Variations and Their Critical Dynamics Revealed before Strong Earthquakes <i>Entropy</i> , 2021 , 24, | 2.8 | 3 |
| 46 | Very exceptional cases of VLF/LF ionospheric perturbations for deep oceanic earthquakes offshore the Japan island. <i>Journal of Asian Earth Sciences</i> , 2015 , 114, 279-288 | 2.8 | 2 |
| 45 | Semianalytical models of sprite formation from plasma inhomogeneities. <i>Geomagnetism and Aeronomy</i> , 2016 , 56, 724-732 | 0.9 | 2 |
| 44 | De-embedding microwave fixtures with the genetic algorithm | | 2 |
| 43 | A General Modeling Method of Synthesis of Complex Technical and Biological Systems. <i>IEEJ Transactions on Fundamentals and Materials</i> , 2005 , 125, 577-582 | 0.2 | 2 |
| 42 | Recent Progress and State of the Art of Seismo-Electromagnetics. <i>IEEJ Transactions on Fundamentals and Materials</i> , 2007 , 127, 4-6 | 0.2 | 2 |
| 41 | Seismogenic Anomalies in Atmospheric Gravity Waves as Observed from SABER/TIMED Satellite during Large Earthquakes. <i>Journal of Sensors</i> , 2022 , 2022, 1-23 | 2 | 2 |
| 40 | Is Earthquake Prediction Possible by Means of Electromagnetic Phenomena?. <i>IEEJ Transactions on Fundamentals and Materials</i> , 2004 , 124, 3-4 | 0.2 | 2 |
| 39 | Fractal analysis of radar images of Japanese winter thunderclouds inducing sprites and its comparison with their corresponding life cycle. <i>Journal of Atmospheric Electricity</i> , 2007 , 27, 113-121 | 0.1 | 2 |
| 38 | Global distribution and characteristics of intense lightning discharges as deduced from ELF transients observed at Moshiri (Japan). <i>Journal of Atmospheric Electricity</i> , 2009 , 29, 71-80 | 0.1 | 2 |
| 37 | Criticality analysis of 3-year-long VLF subionospheric propagation data possibly related to significant earthquake events in Japan. <i>Natural Hazards</i> , 2020 , 102, 47-66 | 3 | 2 |
| 36 | Does air ionization by radon cause low-frequency atmospheric electromagnetic earthquake precursors?. <i>Natural Hazards</i> , 2021 , 106, 701-714 | 3 | 2 |
| 35 | Anomalies of Schumann resonances as observed near Nagoya associated with two huge (M~7) | | |

| 34 | Comment on Sprite lightning heard round the world by Schumann resonance methods by E. R. Williams, V. C. Mushtak, R. Boldi, R. L. Dowden, and ZI. Kawasaki. <i>Radio Science</i> , 2008 , 43, n/a-n/a | 1.4 | 1 |
|----|--|-----|---|
| 33 | Recent Progress in Seismo Electromagnetics (Electromagnetic Phenomena Associated with Earthquakes). <i>IEEJ Transactions on Fundamentals and Materials</i> , 2006 , 126, 43-44 | 0.2 | 1 |
| 32 | Observation of ULF Geomagnetic Variations and Detection of ULF Emissions Associated with Earthquakes: Review. <i>IEEJ Transactions on Fundamentals and Materials</i> , 2006 , 126, 1238-1244 | 0.2 | 1 |
| 31 | 3D Modelling Method of VLF Subionospheric Radio Wave Propagation Allowing for a Localized Ionospheric Perturbation. <i>IEEJ Transactions on Fundamentals and Materials</i> , 2004 , 124, 1216-1224 | 0.2 | 1 |
| 30 | Characteristics of the Sprite Parent Winter Thundercloud with Positive Single Flash in Hokuriku, Japan (A Case Study on 14th December 2001). <i>IEEJ Transactions on Fundamentals and Materials</i> , 2006 , 126, 78-83 | 0.2 | 1 |
| 29 | LithosphereAtmosphereIbnosphere Coupling Effects Based on Multiparameter Precursor Observations for FebruaryMarch 2021 Earthquakes (M~7) in the Offshore of Tohoku Area of Japan. <i>Geosciences (Switzerland)</i> , 2021 , 11, 481 | 2.7 | 1 |
| 28 | Universal and local time components in Schumann resonance intensity. <i>Annales Geophysicae</i> , 2008 , 26, 813-822 | 2 | 1 |
| 27 | Electromagnetic Effects Associated with Regional Sefomic Activity in Crimea during the Interval July-August 2002. <i>Journal of Atmospheric Electricity</i> , 2003 , 23, 57-67 | 0.1 | 1 |
| 26 | Technology 2003: Review & Forecast <i>IEEJ Transactions on Fundamentals and Materials</i> , 2003 , 123, 1-11 | 0.2 | 1 |
| 25 | Multi-fractal analysis for thunderstorms leading to the generation of sprites and elves. <i>Journal of Atmospheric Electricity</i> , 2006 , 26, 51-57 | 0.1 | 1 |
| 24 | Diurnal variations in Schumann resonance intensity in the local and universal times. <i>Journal of Atmospheric Electricity</i> , 2007 , 27, 83-93 | 0.1 | 1 |
| 23 | Anomalous Excitation of Schumann Resonances associated with Earthquakes. <i>Journal of Atmospheric Electricity</i> , 2008 , 28, 87-99 | 0.1 | 1 |
| 22 | SHIFT OF ANTIPODE MAXIMUM OF ELECTRIC FIELD IN THE RESONATOR THE EARTHIONOSPHERE CAVITY CAUSED BY DAYNIGHT NON-UNIFORMITY. <i>Radiofizika I Elektronika</i> , 2019 , 24, 33-46 | 0.1 | 1 |
| 21 | Disturbances of lower ionosphere above the center of earthquake and anomaly in the global electromagnetic resonance signal. Part 2. Anomalies in the power spectra. <i>Radiofizika I Elektronika</i> , 2015 , 20, 31-39 | 0.1 | 1 |
| 20 | Modifications of Schumann resonance spectra as an estimate of causative earthquake magnitude: The model treatment. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2020 , 209, 105392 | 2 | 1 |
| 19 | Estimation of the Epicenter Position of Kamchatka Earthquakes. <i>Pure and Applied Geophysics</i> , 2021 , 178, 813-821 | 2.2 | 1 |
| 18 | Model source bearings of Q-bursts for observations in Antarctica. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2021 , 222, 105723 | 2 | 1 |
| 17 | Model sub-ionospheric ELF LVLF pulses. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2021 , 223, 105726 | 2 | 1 |

LIST OF PUBLICATIONS

| 16 | Direct and indirect evidence of pre-seismic electromagnetic emissions associated with two large earthquakes in Japan. <i>Natural Hazards</i> ,1 | 3 | 1 |
|----|--|------------------|---|
| 15 | ELF Techniques 2015 , 87-137 | | |
| 14 | Recent Developments in Portable Weather Radars and New Experiments. <i>IEEJ Transactions on Fundamentals and Materials</i> , 2008 , 128, 2-4 | 0.2 | |
| 13 | Wide-band ULF/ELF magnetic field measurement in Seikoshi, Izu Japan and some results from preliminary data analysis in relation with seismic activity. <i>Journal of Atmospheric Electricity</i> , 2000 , 20, 111-121 | 0.1 | |
| 12 | Seismic effect on the propagation of subionospheric LF radio waves in Italy. <i>Journal of Atmospheric Electricity</i> , 2001 , 21, 1-7 | 0.1 | |
| 11 | ALTERNATIVE INTERPRETATION OF IONOSPHERIC ALFVEN RESONANCE. <i>Journal of Atmospheric Electricity</i> , 2004 , 24, 17-30 | 0.1 | |
| 10 | Improvement in Detection of Earthquake Precursors by Means of Terminator Time Method in Subionospheric VLF Propagation. <i>Journal of Atmospheric Electricity</i> , 2004 , 24, 31-38 | 0.1 | |
| 9 | Enhancement of EMI Immunity of Cables using Periodical and Quasi-periodical Structures Optimized by the Genetic Algorithm. <i>IEEJ Transactions on Fundamentals and Materials</i> , 2005 , 125, 350-3 | 358 ² | |
| 8 | Observation of Precursory Phenomena on Earthquake using ELF Electromagnetic Waves. <i>Journal of Atmospheric Electricity</i> , 2005 , 25, 11-18 | 0.1 | |
| 7 | Precursory Phenomena of Off Kii Peninsula, Niigataken-Chuetsu, and Sumatra-Andaman Earthquake observed at Nakatsugawa. <i>Journal of Atmospheric Electricity</i> , 2006 , 26, 11-24 | 0.1 | |
| 6 | Interpretation of observations of global electromagnetic resonance by ionosphere non-uniformity localized over the earthquake center. <i>Radiofizika I Elektronika</i> , 2019 , 24, 21-29 | 0.1 | |
| 5 | PROPAGATION OF TRANSIENT ELECTROMAGNETIC WAVES IN A LOSSY MAGNETOPLASMA HALF-SPACE WITH ARBITRARILY-ORIENTED MAGNETIC FIELD. <i>Journal of Atmospheric Electricity</i> , 1996 , 16, 89-101 | 0.1 | |
| 4 | DUCTED PROPAGATION OF LIGHTNING-GENERATED WHISTLERS IN THE JOVIAN MAGNETOSPHERE. <i>Journal of Atmospheric Electricity</i> , 1997 , 17, 33-45 | 0.1 | |
| 3 | Ducted and Nonducted Whistlers at Mid Latitude. <i>Journal of Atmospheric Electricity</i> , 1998 , 18, 131-138 | 0.1 | |
| 2 | AN AUTOMATIC DETECTING METHOD OF TRIL¥IPI EVENTS BASED ON MATCHED FILTER CONCEPT. Journal of Atmospheric Electricity, 1999 , 19, 61-68 | 0.1 | |
| 1 | Morphology of winter sprites in the Hokuriku area of Japan: Monthly variation and dependence on air temperature. <i>Journal of Atmospheric Electricity</i> , 2009 , 29, 23-34 | 0.1 | |