

Esa Turunen

List of Publications by Year in descending order

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70
papers

2,430
citations

185998

28
h-index

214527

47
g-index

70
all docs

70
docs citations

70
times ranked

1698
citing authors

#	ARTICLE	IF	CITATIONS
1	Measurements of natural radiation with an MDU Liulin type device at ground and in the atmosphere at various conditions in the Arctic region. <i>Radiation Measurements</i> , 2022, 154, 106757.	0.7	5
2	Polar Middle Atmospheric Responses to Medium Energy Electron (MEE) Precipitation Using Numerical Model Simulations. <i>Atmosphere</i> , 2021, 12, 133.	1.0	1
3	Penetration of MeV electrons into the mesosphere accompanying pulsating aurorae. <i>Scientific Reports</i> , 2021, 11, 13724.	1.6	37
4	Simulated seasonal impact on middle atmospheric ozone from high-energy electron precipitation related to pulsating aurorae. <i>Annales Geophysicae</i> , 2021, 39, 883-897.	0.6	8
5	Multiple time-scale beats in aurora: precise orchestration via magnetospheric chorus waves. <i>Scientific Reports</i> , 2020, 10, 3380.	1.6	33
6	VLF Measurements and Modeling of the D-Region Response to the 2017 Total Solar Eclipse. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2019, 57, 7613-7622.	2.7	16
7	On the Effects of Bremsstrahlung Radiation During Energetic Electron Precipitation. <i>Geophysical Research Letters</i> , 2018, 45, 1167-1176.	1.5	29
8	Responses of Nitrogen Oxide to High-Speed Solar Wind Stream in the Polar Middle Atmosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 9788-9801.	0.8	3
9	Energetic electron precipitation and auroral morphology at the substorm recovery phase. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 6508-6527.	0.8	20
10	The effect of vernal solar UV radiation on serum 25-hydroxyvitamin D concentration depends on the baseline level: observations from a high latitude in Finland. <i>International Journal of Circumpolar Health</i> , 2017, 76, 1272790.	0.5	7
11	Ground-based instruments of the PWING project to investigate dynamics of the inner magnetosphere at subauroral latitudes as a part of the ERC-ground coordinated observation network. <i>Earth, Planets and Space</i> , 2017, 69, .	0.9	74
12	Challenges and Strategic Research Plans for Earth and Heliosphere: Research Infrastructures, Projects and Initiatives. <i>Proceedings of the International Astronomical Union</i> , 2017, 13, 219-225.	0.0	0
13	Mesospheric ozone destruction by high-energy electron precipitation associated with pulsating aurora. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 11,852.	1.2	69
14	Energetic electron precipitation associated with pulsating aurora: EISCAT and Van Allen Probe observations. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 2754-2766.	0.8	133
15	Energetic Particle Influence on the Earth's Atmosphere. <i>Space Science Reviews</i> , 2015, 194, 1-96.	3.7	183
16	KAIRA: The Kilpisjärvi Atmospheric Imaging Receiver Array System Overview and First Results. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2015, 53, 1440-1451.	2.7	38
17	Broadband meter-wavelength observations of ionospheric scintillation. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 10,544.	0.8	17
18	Comparison of temporal fluctuations in the total electron content estimates from EISCAT and GPS along the same line of sight. <i>Annales Geophysicae</i> , 2013, 31, 745-753.	0.6	5

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19	Comparison of modeled and observed effects of radiation belt electron precipitation on mesospheric hydroxyl and ozone. Journal of Geophysical Research D: Atmospheres, 2013, 118, 11,419.	1.2	21
20	Atmosphere-ionosphere conductivity enhancements during a hard solar energetic particle event. Journal of Geophysical Research, 2012, 117, .	3.3	4
21	Alfvén: magnetosphere-ionosphere connection explorers. Experimental Astronomy, 2012, 33, 445-489.	1.6	9
22	The Hotel Payload 2 campaign: Overview of NO, O and electron density measurements in the upper mesosphere and lower thermosphere. Journal of Atmospheric and Solar-Terrestrial Physics, 2011, 73, 2228-2236.	0.6	11
23	Global scale ionospheric monitoring - Future development. , 2011, , .		0
24	Scintillations on LEO polar orbiting beacon signals in presence of sporadic E layers recorded by EISCAT. , 2011, , .		0
25	The D-region ionosphere during the solar minimum as seen by the EISCAT Svalbard continuous 1-year IPY radar experiment. , 2011, , .		0
26	Correction to "Radiation belt electron precipitation into the atmosphere: Recovery from a geomagnetic storm". Journal of Geophysical Research, 2010, 115, .	3.3	1
27	Seeking sprite-induced signatures in remotely sensed middle atmosphere NO ₂ : latitude and time variations. Plasma Sources Science and Technology, 2009, 18, 034014.	1.3	21
28	Earthquake responses in the high-latitude ionosphere. Geomagnetism and Aeronomy, 2009, 49, 682-689.	0.2	0
29	Impact of different energies of precipitating particles on NO _x generation in the middle and upper atmosphere during geomagnetic storms. Journal of Atmospheric and Solar-Terrestrial Physics, 2009, 71, 1176-1189.	0.6	166
30	Remote sensing space weather events: Antarctic-Arctic Radiation-belt (Dynamic) Deposition-VLF Atmospheric Research Konsortium network. Space Weather, 2009, 7, .	1.3	102
31	Modification of midlatitude ionospheric parameters in the F2 layer by persistent high-speed solar wind streams. Space Weather, 2009, 7, .	1.3	40
32	Recent Results from Studies of Electric Discharges in the Mesosphere. Surveys in Geophysics, 2008, 29, 71-137.	2.1	114
33	Seeking sprite-induced signatures in remotely sensed middle atmosphere NO ₂ . Geophysical Research Letters, 2008, 35, .	1.5	40
34	About the increase of HNO ₃ in the stratopause region during the Halloween 2003 solar proton event. Geophysical Research Letters, 2008, 35, .	1.5	39
35	Could negative ion production explain the polar mesosphere winter echo (PMWE) modulation in active HF heating experiments?. Geophysical Research Letters, 2008, 35, .	1.5	15
36	The effects of hard-spectra solar proton events on the middle atmosphere. Journal of Geophysical Research, 2008, 113, .	3.3	47

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37	Atmospheric impact of the Carrington event solar protons. Journal of Geophysical Research, 2008, 113, .	3.3	25
38	Case study of the mesospheric and lower thermospheric effects of solar X-ray flares: coupled ion-neutral modelling and comparison with EISCAT and riometer measurements. Annales Geophysicae, 2008, 26, 2311-2321.	0.6	8
39	New incoherent scatter diagnostic methods for the heated D-region ionosphere. Annales Geophysicae, 2008, 26, 2273-2279.	0.6	14
40	Parameterisation of the chemical effect of sprites in the middle atmosphere. Annales Geophysicae, 2008, 26, 13-27.	0.6	49
41	Storm time, short-lived bursts of relativistic electron precipitation detected by subionospheric radio wave propagation. Journal of Geophysical Research, 2007, 112, .	3.3	22
42	Radiation belt electron precipitation into the atmosphere: Recovery from a geomagnetic storm. Journal of Geophysical Research, 2007, 112, .	3.3	75
43	Heights of SuperDARN F region echoes estimated from the analysis of HF radio wave propagation. Annales Geophysicae, 2007, 25, 1987-1994.	0.6	11
44	Statistical signature of active D-region HF heating in IRIS riometer data from 1994-2004. Annales Geophysicae, 2007, 25, 407-415.	0.6	5
45	Latitudinal extent of the January 2005 solar proton event in the Northern Hemisphere from satellite observations of hydroxyl. Annales Geophysicae, 2007, 25, 2203-2215.	0.6	27
46	Lightning-driven inner radiation belt energy deposition into the atmosphere: implications for ionisation-levels and neutral chemistry. Annales Geophysicae, 2007, 25, 1745-1757.	0.6	25
47	Dynamic geomagnetic rigidity cutoff variations during a solar proton event. Journal of Geophysical Research, 2006, 111, .	3.3	43
48	Modeling polar ionospheric effects during the October-November 2003 solar proton events. Radio Science, 2006, 41, n/a-n/a.	0.8	32
49	Production of odd hydrogen in the mesosphere during the January 2005 solar proton event. Geophysical Research Letters, 2006, 33, .	1.5	93
50	Sunset transition of negative charge in the D-region ionosphere during high-ionization conditions. Annales Geophysicae, 2006, 24, 187-202.	0.6	16
51	The atmospheric implications of radiation belt remediation. Annales Geophysicae, 2006, 24, 2025-2041.	0.6	20
52	Effects of D-region RF heating studied with the Sodankylä Ion Chemistry model. Annales Geophysicae, 2005, 23, 1575-1583.	0.6	16
53	Modeling a large solar proton event in the southern polar atmosphere. Journal of Geophysical Research, 2005, 110, .	3.3	41
54	Diurnal variation of ozone depletion during the October-November 2003 solar proton events. Journal of Geophysical Research, 2005, 110, .	3.3	147

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55	Modelling the effects of the October 1989 solar proton event on mesospheric odd nitrogen using a detailed ion and neutral chemistry model. <i>Annales Geophysicae</i> , 2002, 20, 1967-1976.	0.6	52
56	Effective recombination coefficient in the lower ionosphere during bursts of auroral electrons. <i>Advances in Space Research</i> , 2000, 25, 47-50.	1.2	8
57	First EISCAT measurement of electron-gas temperature in the artificially heated D-region ionosphere. <i>Annales Geophysicae</i> , 2000, 18, 1210-1215.	0.6	37
58	Negative ions in the auroral mesosphere during a PCA event around sunset. <i>Annales Geophysicae</i> , 1999, 17, 782-793.	0.6	10
59	Evidence for long-term cooling of the upper atmosphere in ionosonde data. <i>Geophysical Research Letters</i> , 1997, 24, 1103-1106.	1.5	126
60	Incoherent scatter radar contributions to high latitude D-region aeronomy. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 1996, 58, 707-725.	0.9	11
61	Artificial periodic irregularities in the auroral ionosphere. <i>Annales Geophysicae</i> , 1996, 14, 1437-1453.	0.6	26
62	High-latitude plasma densities in the middle atmosphere and characteristics of precipitating electrons during an auroral absorption substorm. <i>Advances in Space Research</i> , 1993, 13, 99-104.	1.2	6
63	EISCAT incoherent scatter radar observations and model studies of day to twilight variations in the D-region during the PCA event of August 1989. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 1993, 55, 767-781.	0.9	23
64	Comparison of observed and calculated incoherent scatter spectra from the <i>D</i> region. <i>Radio Science</i> , 1991, 26, 1153-1164.	0.8	14
65	Chemical modelling of the quiet summer D- and E-regions using EISCAT electron density profiles. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 1991, 53, 115-134.	0.9	30
66	Range ambiguity effects in a phase coded D-region incoherent scatter radar experiment. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 1989, 51, 937-945.	0.9	12
67	Incoherent scatter spectral measurements of the summertime high-latitude D-region with the EISCAT UHF radar. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 1988, 50, 289-299.	0.9	26
68	Evidence of heavy positive ions at the summer Arctic mesopause from the EISCAT UHF incoherent scatter radar. <i>Geophysical Research Letters</i> , 1988, 15, 148-151.	1.5	31
69	Observations of the polar cap absorption event of February 1984 by the EISCAT incoherent scatter radar. <i>Planetary and Space Science</i> , 1987, 35, 947-958.	0.9	35
70	Two-phase description of strongly interacting matter. <i>Zeitschrift für Physik C-Particles and Fields</i> , 1984, 22, 179-184.	1.5	6