

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	Energetic Particle Influence on the Earth's Atmosphere. <i>Space Science Reviews</i> , 2015, 194, 1-96.	3.7	183
2	Impact of different energies of precipitating particles on NO _x generation in the middle and upper atmosphere during geomagnetic storms. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2009, 71, 1176-1189.	0.6	166
3	Diurnal variation of ozone depletion during the October-November 2003 solar proton events. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	147
4	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
5	Evidence for long-term cooling of the upper atmosphere in ionosonde data. <i>Geophysical Research Letters</i> , 1997, 24, 1103-1106.	1.5	126
6	Recent Results from Studies of Electric Discharges in the Mesosphere. <i>Surveys in Geophysics</i> , 2008, 29, 71-137.	2.1	114
7	Remote sensing space weather events: Antarctic-Arctic Radiation-belt (Dynamic) Deposition-VLF Atmospheric Research Konsortium network. <i>Space Weather</i> , 2009, 7, .	1.3	102
8	Production of odd hydrogen in the mesosphere during the January 2005 solar proton event. <i>Geophysical Research Letters</i> , 2006, 33, .	1.5	93
9	Radiation belt electron precipitation into the atmosphere: Recovery from a geomagnetic storm. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	75
10	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, .	0.9	74
11	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
12	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
13	Parameterisation of the chemical effect of sprites in the middle atmosphere. <i>Annales Geophysicae</i> , 2008, 26, 13-27.	0.6	49
14	The effects of hard-spectra solar proton events on the middle atmosphere. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	47
15	Dynamic geomagnetic rigidity cutoff variations during a solar proton event. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	43
16	Modeling a large solar proton event in the southern polar atmosphere. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	41
17	Seeking sprite-induced signatures in remotely sensed middle atmosphere NO ₂ . <i>Geophysical Research Letters</i> , 2008, 35, .	1.5	40
18	Modification of midlatitude ionospheric parameters in the F2 layer by persistent high-speed solar wind streams. <i>Space Weather</i> , 2009, 7, .	1.3	40

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19	About the increase of HNO ₃ in the stratopause region during the Halloween 2003 solar proton event. <i>Geophysical Research Letters</i> , 2008, 35, .	1.5	39
20	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
21	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
22	Penetration of MeV electrons into the mesosphere accompanying pulsating aurorae. <i>Scientific Reports</i> , 2021, 11, 13724.	1.6	37
23	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
24	Multiple time-scale beats in aurora: precise orchestration via magnetospheric chorus waves. <i>Scientific Reports</i> , 2020, 10, 3380.	1.6	33
25	Modeling polar ionospheric effects during the October-November 2003 solar proton events. <i>Radio Science</i> , 2006, 41, n/a-n/a.	0.8	32
26	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
27	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
28	On the Effects of Bremsstrahlung Radiation During Energetic Electron Precipitation. <i>Geophysical Research Letters</i> , 2018, 45, 1167-1176.	1.5	29
29	Latitudinal extent of the January 2005 solar proton event in the Northern Hemisphere from satellite observations of hydroxyl. <i>Annales Geophysicae</i> , 2007, 25, 2203-2215.	0.6	27
30	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
31	Artificial periodic irregularities in the auroral ionosphere. <i>Annales Geophysicae</i> , 1996, 14, 1437-1453.	0.6	26
32	Atmospheric impact of the Carrington event solar protons. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	25
33	Lightning-driven inner radiation belt energy deposition into the atmosphere: implications for ionisation-levels and neutral chemistry. <i>Annales Geophysicae</i> , 2007, 25, 1745-1757.	0.6	25
34	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
35	Storm time, short-lived bursts of relativistic electron precipitation detected by subionospheric radio wave propagation. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	22
36	Seeking sprite-induced signatures in remotely sensed middle atmosphere NO ₂ : latitude and time variations. <i>Plasma Sources Science and Technology</i> , 2009, 18, 034014.	1.3	21

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37	Comparison of modeled and observed effects of radiation belt electron precipitation on mesospheric hydroxyl and ozone. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 11,419.	1.2	21
38	The atmospheric implications of radiation belt remediation. <i>Annales Geophysicae</i> , 2006, 24, 2025-2041.	0.6	20
39	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
40	Broadband meterâ€wavelength observations of ionospheric scintillation. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 10,544.	0.8	17
41	Effects of D-region RF heating studied with the SodankylÃ Ion Chemistry model. <i>Annales Geophysicae</i> , 2005, 23, 1575-1583.	0.6	16
42	Sunset transition of negative charge in the D-region ionosphere during high-ionization conditions. <i>Annales Geophysicae</i> , 2006, 24, 187-202.	0.6	16
43	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
44	Could negative ion production explain the polar mesosphere winter echo (PMWE) modulation in active HF heating experiments?. <i>Geophysical Research Letters</i> , 2008, 35, .	1.5	15
45	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
46	New incoherent scatter diagnostic methods for the heated D-region ionosphere. <i>Annales Geophysicae</i> , 2008, 26, 2273-2279.	0.6	14
47	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
48	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
49	Heights of SuperDARN F region echoes estimated from the analysis of HF radio wave propagation. <i>Annales Geophysicae</i> , 2007, 25, 1987-1994.	0.6	11
50	The Hotel Payload 2 campaign: Overview of NO, O and electron density measurements in the upper mesosphere and lower thermosphere. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2011, 73, 2228-2236.	0.6	11
51	Negative ions in the auroral mesosphere during a PCA event around sunset. <i>Annales Geophysicae</i> , 1999, 17, 782-793.	0.6	10
52	AlfvÃ©n: magnetosphereâ€ionosphere connection explorers. <i>Experimental Astronomy</i> , 2012, 33, 445-489.	1.6	9
53	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
54	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. <i>Annales Geophysicae</i> , 2008, 26, 2311-2321.	0.6	8

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55	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
56	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
57	Two-phase description of strongly interacting matter. <i>Zeitschrift für Physik C-Particles and Fields</i> , 1984, 22, 179-184.	1.5	6
58	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
59	Statistical signature of active D-region HF heating in IRIS riometer data from 1994–2004. <i>Annales Geophysicae</i> , 2007, 25, 407-415.	0.6	5
60	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
61	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
62	Atmosphere–ionosphere conductivity enhancements during a hard solar energetic particle event. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	4
63	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
64	Correction to “Radiation belt electron precipitation into the atmosphere: Recovery from a geomagnetic storm”. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	1
65	Polar Middle Atmospheric Responses to Medium Energy Electron (MEE) Precipitation Using Numerical Model Simulations. <i>Atmosphere</i> , 2021, 12, 133.	1.0	1
66	Earthquake responses in the high-latitude ionosphere. <i>Geomagnetism and Aeronomy</i> , 2009, 49, 682-689.	0.2	0
67	Global scale ionospheric monitoring “ Future development. , 2011, , .		0
68	Scintillations on LEO polar orbiting beacon signals in presence of sporadic E layers recorded by EISCAT. , 2011, , .		0
69	The D-region ionosphere during the solar minimum as seen by the EISCAT Svalbard continuous 1-year IPY radar experiment. , 2011, , .		0
70	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