

Annika Seppel

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/4803137/annika-seppala-publications-by-year.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.

72
papers

2,608
citations

30
h-index

50
g-index

89
ext. papers

2,904
ext. citations

4.7
avg, IF

4.58
L-index

#	Paper	IF	Citations
72	Predictability of variable solar/terrestrial coupling. <i>Annales Geophysicae</i> , 2021 , 39, 1013-1035	2	3
71	Impact of EMIC-Wave Driven Electron Precipitation on the Radiation Belts and the Atmosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2021 , 126, e2020JA028671	2.6	2
70	Polar Middle Atmospheric Responses to Medium Energy Electron (MEE) Precipitation Using Numerical Model Simulations. <i>Atmosphere</i> , 2021 , 12, 133	2.7	
69	Observational evidence of energetic particle precipitation NO ₂ (EPP-NO ₂) interaction with chlorine curbing Antarctic ozone loss. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 2819-2836	6.8	1
68	Role Of the Sun and the Middle atmosphere/thermosphere/ionosphere In Climate (ROSMIC): a retrospective and prospective view. <i>Progress in Earth and Planetary Science</i> , 2021 , 8,	3.9	6
67	Does the coupling of the semiannual oscillation with the quasi-biennial oscillation provide predictability of Antarctic sudden stratospheric warmings?. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 12835-12853	6.8	
66	Evidence for energetic particle precipitation and quasi-biennial oscillation modulations of the Antarctic NO ₂ springtime stratospheric column from OMI observations. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 6259-6271	6.8	4
65	Statistical response of middle atmosphere composition to solar proton events in WACCM-D simulations: the importance of lower ionospheric chemistry. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 8923-8938	6.8	5
64	Simulation study for ground-based Ku-band microwave observations of ozone and hydroxyl in the polar middle atmosphere. <i>Atmospheric Measurement Techniques</i> , 2019 , 12, 1375-1392	4	3
63	Polar Ozone Response to Energetic Particle Precipitation Over Decadal Time Scales: The Role of Medium-Energy Electrons. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018 , 123, 607-622	4.4	30
62	Observations and Modeling of Increased Nitric Oxide in the Antarctic Polar Middle Atmosphere Associated With Geomagnetic Storm-Driven Energetic Electron Precipitation. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 6009-6025	2.6	16
61	Relativistic Electron Microburst Events: Modeling the Atmospheric Impact. <i>Geophysical Research Letters</i> , 2018 , 45, 1141-1147	4.9	15
60	An Updated Model Providing Long-Term Data Sets of Energetic Electron Precipitation, Including Zonal Dependence. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018 , 123, 9891-9915	4.4	27
59	Solar forcing for CMIP6 (v3.2). <i>Geoscientific Model Development</i> , 2017 , 10, 2247-2302	6.3	199
58	HEPPA-II model/measurement intercomparison project: EPP indirect effects during the dynamically perturbed NH winter 2008/2009. <i>Atmospheric Chemistry and Physics</i> , 2017 , 17, 3573-3604	6.8	41
57	Linkages Between the Radiation Belts, Polar Atmosphere and Climate: Electron Precipitation Through Wave Particle Interactions 2016 , 354-376		7
56	Solar Forcing for CMIP6 (v3.1) 2016 ,		19

55	Transport versus energetic particle precipitation: Northern polar stratospheric NO _x and ozone in January-March 2012. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016 , 121, 6085-6100	4.4	18
54	A model providing long-term data sets of energetic electron precipitation during geomagnetic storms. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016 , 121, 12,520-12,540	4.4	42
53	Substorm-induced energetic electron precipitation: Impact on atmospheric chemistry. <i>Geophysical Research Letters</i> , 2015 , 42, 8172-8176	4.9	40
52	Response: Commentary: Energetic particle forcing of the Northern Hemisphere winter stratosphere: comparison to solar irradiance forcing. <i>Frontiers in Physics</i> , 2015 , 3,	3.9	
51	Variability of NO _x in the polar middle atmosphere from October 2003 to March 2004: vertical transport vs. local production by energetic particles. <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 7681-7692	6.8	15
50	Missing driver in the Sun-Earth connection from energetic electron precipitation impacts mesospheric ozone. <i>Nature Communications</i> , 2014 , 5, 5197	17.4	119
49	What is the solar influence on climate? Overview of activities during CAWSES-II. <i>Progress in Earth and Planetary Science</i> , 2014 , 1,	3.9	47
48	Geomagnetic activity signatures in wintertime stratosphere wind, temperature, and wave response. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 2169-2183	4.4	81
47	Observed effects of solar proton events and sudden stratospheric warmings on odd nitrogen and ozone in the polar middle atmosphere. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 6837-6848	4.4	25
46	QBO-dependent relation between electron precipitation and wintertime surface temperature. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 6302-6310	4.4	25
45	Observations of nitric oxide in the Antarctic middle atmosphere during recurrent geomagnetic storms. <i>Journal of Geophysical Research: Space Physics</i> , 2013 , 118, 7874-7885	2.6	9
44	Atmosphere-ionosphere conductivity enhancements during a hard solar energetic particle event. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		3
43	Direct observations of nitric oxide produced by energetic electron precipitation into the Antarctic middle atmosphere. <i>Geophysical Research Letters</i> , 2011 , 38, n/a-n/a	4.9	32
42	Nitric acid enhancements in the mesosphere during the January 2005 and December 2006 solar proton events. <i>Journal of Geophysical Research</i> , 2011 , 116,		34
41	Geomagnetic activity related NO _x enhancements and polar surface air temperature variability in a chemistry climate model: modulation of the NAM index. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 4521-4531	6.8	98
40	Mesosphere-to-stratosphere descent of odd nitrogen in February-March 2009 after sudden stratospheric warming. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 4645-4655	6.8	32
39	Radiation belt electron precipitation due to geomagnetic storms: Significance to middle atmosphere ozone chemistry. <i>Journal of Geophysical Research</i> , 2010 , 115, n/a-n/a		26
38	Ground-based estimates of outer radiation belt energetic electron precipitation fluxes into the atmosphere. <i>Journal of Geophysical Research</i> , 2010 , 115, n/a-n/a		41

37	Correction to Radiation belt electron precipitation into the atmosphere: Recovery from a geomagnetic storm. <i>Journal of Geophysical Research</i> , 2010 , 115, n/a-n/a		1
36	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	2	133
35	Remote sensing space weather events: Antarctic-Arctic Radiation-belt (Dynamic) Deposition-VLF Atmospheric Research Konsortium network. <i>Space Weather</i> , 2009 , 7, n/a-n/a	3-7	79
34	Additional stratospheric NO _x production by relativistic electron precipitation during the 2004 spring NO _x descent event. <i>Journal of Geophysical Research</i> , 2009 , 114, n/a-n/a		26
33	Geomagnetic activity and polar surface air temperature variability. <i>Journal of Geophysical Research</i> , 2009 , 114, n/a-n/a		117
32	Spatio-temporal observations of the tertiary ozone maximum. <i>Atmospheric Chemistry and Physics</i> , 2009 , 9, 4439-4445	6.8	24
31	Description and validation of a limb scatter retrieval method for Odin/OSIRIS. <i>Journal of Geophysical Research</i> , 2008 , 113,		21
30	Geomagnetic perturbations on stratospheric circulation in late winter and spring. <i>Journal of Geophysical Research</i> , 2008 , 113,		39
29	Significance of transient luminous events to neutral chemistry: Experimental measurements. <i>Geophysical Research Letters</i> , 2008 , 35, n/a-n/a	4-9	28
28	Observations of relativistic electron precipitation from the radiation belts driven by EMIC waves. <i>Geophysical Research Letters</i> , 2008 , 35,	4-9	87
27	Energetic electron precipitation during substorm injection events: High-latitude fluxes and an unexpected midlatitude signature. <i>Journal of Geophysical Research</i> , 2008 , 113,		33
26	The effects of hard-spectra solar proton events on the middle atmosphere. <i>Journal of Geophysical Research</i> , 2008 , 113, n/a-n/a		40
25	Atmospheric impact of the Carrington event solar protons. <i>Journal of Geophysical Research</i> , 2008 , 113,		20
24	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	2	5
23	Parameterisation of the chemical effect of sprites in the middle atmosphere. <i>Annales Geophysicae</i> , 2008 , 26, 13-27	2	41
22	Global analysis of scintillation variance: Indication of gravity wave breaking in the polar winter upper stratosphere. <i>Geophysical Research Letters</i> , 2007 , 34,	4-9	18
21	Temporal variability of the descent of high-altitude NO _x inferred from ionospheric data. <i>Journal of Geophysical Research</i> , 2007 , 112, n/a-n/a		24
20	NO _x enhancements in the middle atmosphere during 2003-2004 polar winter: Relative significance of solar proton events and the aurora as a source. <i>Journal of Geophysical Research</i> , 2007 , 112,		42

19	Arctic and Antarctic polar winter NO _x and energetic particle precipitation in 2002–2006. <i>Geophysical Research Letters</i> , 2007 , 34,	4.9	84
18	Radiation belt electron precipitation into the atmosphere: Recovery from a geomagnetic storm. <i>Journal of Geophysical Research</i> , 2007 , 112, n/a-n/a		64
17	Destruction of the tertiary ozone maximum during a solar proton event. <i>Geophysical Research Letters</i> , 2006 , 33,	4.9	60
16	Modeling polar ionospheric effects during the October–November 2003 solar proton events. <i>Radio Science</i> , 2006 , 41, n/a-n/a	1.4	27
15	Ionospheric evidence of thermosphere-to-stratosphere descent of polar NO _x . <i>Geophysical Research Letters</i> , 2006 , 33,	4.9	36
14	Production of odd hydrogen in the mesosphere during the January 2005 solar proton event. <i>Geophysical Research Letters</i> , 2006 , 33,	4.9	81
13	Nighttime ozone profiles in the stratosphere and mesosphere by the Global Ozone Monitoring by Occultation of Stars on Envisat. <i>Journal of Geophysical Research</i> , 2006 , 111,		41
12	Modeling a large solar proton event in the southern polar atmosphere. <i>Journal of Geophysical Research</i> , 2005 , 110,		38
11	Diurnal variation of ozone depletion during the October–November 2003 solar proton events. <i>Journal of Geophysical Research</i> , 2005 , 110,		123
10	Polar vortex evolution during the 2002 Antarctic major warming as observed by the Odin satellite. <i>Journal of Geophysical Research</i> , 2005 , 110,		23
9	A 2003 stratospheric aerosol extinction and PSC climatology from GOMOS measurements on Envisat. <i>Atmospheric Chemistry and Physics</i> , 2005 , 5, 2413-2417	6.8	19
8	GOMOS serendipitous data products: The mesospheric sodium layer and various limb emissions. <i>Advances in Space Research</i> , 2005 , 36, 967-972	2.4	1
7	Autoregressive smoothing of GOMOS transmittances. <i>Advances in Space Research</i> , 2005 , 36, 899-905	2.4	4
6	Effects of D-region RF heating studied with the Sodankylä Ion Chemistry model. <i>Annales Geophysicae</i> , 2005 , 23, 1575-1583	2	15
5	Solar proton events of October–November 2003: Ozone depletion in the Northern Hemisphere polar winter as seen by GOMOS/Envisat. <i>Geophysical Research Letters</i> , 2004 , 31,	4.9	119
4	Global measurement of the mesospheric sodium layer by the star occultation instrument GOMOS. <i>Geophysical Research Letters</i> , 2004 , 31,	4.9	23
3	Geomagnetic activity related NO _x enhancements and polar surface air temperature variability in a chemistry climate model: modulation of the NAM index		2
2	Mesosphere-to-stratosphere descent of odd nitrogen in February–March 2009 after sudden stratospheric warming		1

1 Predictability of the variable solar-terrestrial coupling

2