

Erkki Kyrl

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43
papers

1,063
citations

19
h-index

32
g-index

61
ext. papers

1,195
ext. citations

6.9
avg, IF

3.48
L-index

#	Paper	IF	Citations
43	Velocity tuned resonances as multi-doppleron processes. <i>Optics Communications</i> , 1977 , 22, 123-126	2	93
42	Arctic and Antarctic polar winter NO _x and energetic particle precipitation in 2002–2006. <i>Geophysical Research Letters</i> , 2007 , 34,	4.9	84
41	Combined SAGE II/GOMOS ozone profile data set for 1984–2011 and trend analysis of the vertical distribution of ozone. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 10645-10658	6.8	81
40	Ground-based assessment of the bias and long-term stability of 14 limb and occultation ozone profile data records. <i>Atmospheric Measurement Techniques</i> , 2016 , 9, 2497-2534	4	74
39	Large increase of NO ₂ in the north polar mesosphere in January–February 2004: Evidence of a dynamical origin from GOMOS/ENVISAT and SABER/TIMED data. <i>Geophysical Research Letters</i> , 2007 , 34,	4.9	62
38	Trends in stratospheric ozone derived from merged SAGE II and Odin-OSIRIS satellite observations. <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 6983-6994	6.8	58
37	Multiple scattering radiance in limb-viewing geometry. <i>Journal of Geophysical Research</i> , 1999 , 104, 31261-31274	4.7	47
36	Intercomparison of vertically resolved merged satellite ozone data sets: interannual variability and long-term trends. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 3021-3043	6.8	51
35	Absorption cross-sections of ozone in the ultraviolet and visible spectral regions: Status report 2015. <i>Journal of Molecular Spectroscopy</i> , 2016 , 327, 105-121	1.3	45
34	Satellite observations of high nighttime ozone at the equatorial mesopause. <i>Journal of Geophysical Research</i> , 2008 , 113,	4.3	43
33	Harmonized dataset of ozone profiles from satellite limb and occultation measurements. <i>Earth System Science Data</i> , 2013 , 5, 349-363	10.5	40
32	Analysing time-varying trends in stratospheric ozone time series using the state space approach. <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 9707-9725	6.8	39
31	Interplanetary hydrogen absolute ionization rates: Retrieving the solar wind mass flux latitude and cycle dependence with SWAN/SOHO maps. <i>Journal of Geophysical Research</i> , 2006 , 111,	3.7	37
30	Merged SAGE II, Ozone_cci and OMPS ozone profile dataset and evaluation of ozone trends in the stratosphere. <i>Atmospheric Chemistry and Physics</i> , 2017 , 17, 12533-12552	6.8	33
29	Space-Based Observations for Understanding Changes in the Arctic-Boreal Zone. <i>Reviews of Geophysics</i> , 2020 , 58, e2019RG000652	23.1	23
28	Monitoring solar activity on the far side of the sun from sky reflected Lyman β radiation. <i>Geophysical Research Letters</i> , 2000 , 27, 1331-1334	4.9	22
27	A Madden-Julian Oscillation-triggered record ozone minimum over the Tibetan Plateau in December 2003 and its association with stratospheric low-ozone pockets. <i>Geophysical Research Letters</i> , 2009 , 36, n/a-n/a	4.9	21

26	Swan Observations of the Solar Wind Latitude Distribution and its Evolution Since Launch. <i>Space Science Reviews</i> , 1999 , 87, 129-132	7.5	20
25	Long-time limit of a quasicontinuum model. <i>Optics Communications</i> , 1985 , 56, 17-21	2	19
24	Probe spectroscopy in an inhomogeneously broadened three-level system saturated by an intense standing wave. <i>Physical Review A</i> , 1981 , 23, 1874-1892	2.6	18
23	A novel tropopause-related climatology of ozone profiles. <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 283-299	6.8	16
22	Discovery of a comet by its Lyman-alpha emission. <i>Nature</i> , 2000 , 405, 321-2	50.4	13
21	Relative drifts and biases between six ozone limb satellite measurements from the last decade. <i>Atmospheric Measurement Techniques</i> , 2015 , 8, 4369-4381	4	12
20	Response of interplanetary glow to global variations of hydrogen ionization rate and solar Lyman β flux. <i>Journal of Geophysical Research</i> , 2002 , 107, SSH 2-1		12
19	Validation of GOMOS ozone precision estimates in the stratosphere. <i>Atmospheric Measurement Techniques</i> , 2014 , 7, 2147-2158	4	11
18	AerGOM, an improved algorithm for stratospheric aerosol extinction retrieval from GOMOS observations [Part 1: Algorithm description]. <i>Atmospheric Measurement Techniques</i> , 2016 , 9, 4687-4700	4	10
17	Ground-based assessment of the bias and long-term stability of fourteen limb and occultation ozone profile data records. <i>Atmospheric Measurement Techniques</i> , 2016 , 9, 2497-2534	4	9
16	Improved GOMOS/Envisat ozone retrievals in the upper troposphere and the lower stratosphere. <i>Atmospheric Measurement Techniques</i> , 2017 , 10, 231-246	4	8
15	Probe-spectroscopy of multi-Doppleron processes. <i>Optics Communications</i> , 1979 , 30, 37-40	2	8
14	The roles of vertical advection and eddy diffusion in the equatorial mesospheric semi-annual oscillation (MSAO). <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 7813-7824	6.8	5
13	Measurement report: regional trends of stratospheric ozone evaluated using the Merged GRidded Dataset of Ozone Profiles (MEGRIDOP). <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 6707-6720	6.8	5
12	GOMOS bright limb ozone data set. <i>Atmospheric Measurement Techniques</i> , 2015 , 8, 3107-3115	4	4
11	Analyzing time varying trends in stratospheric ozone time series using state space approach		4
10	Trends in stratospheric ozone derived from merged SAGE II and Odin-OSIRIS satellite observations		4
9	Combined SAGE II-GOMOS ozone profile data set 1984-2011 and trend analysis of the vertical distribution of ozone		4

8	Systematic comparison of vectorial spherical radiative transfer models in limb scattering geometry. <i>Atmospheric Measurement Techniques</i> , 2021 , 14, 3953-3972	4	4
7	Overview and update of the SPARC Data Initiative: comparison of stratospheric composition measurements from satellite limb sounders. <i>Earth System Science Data</i> , 2021 , 13, 1855-1903	10.5	3
6	Middle atmospheric ozone, nitrogen dioxide and nitrogen trioxide in 2002-2011: SD-WACCM simulations compared to GOMOS observations. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 5001-5019	6.8	2
5	Systematic Comparison of Vectorial Spherical Radiative Transfer Models in Limb Scattering Geometry		2
4	Relative drifts and biases between six ozone limb satellite measurements from the last decade 2015 ,		1
3	OCLO slant column densities derived from GOMOS averaged transmittance measurements. <i>Atmospheric Measurement Techniques</i> , 2013 , 6, 2953-2964	4	1
2	COMMENTS ON THE PAPER: RECALCULATION OF H-LEISKY SURVEYS: NO NEED FOR ANISOTROPIC SOLAR WIND MASS OUTFLOWS?. <i>Solar Physics</i> , 1997 , 170, 365-370	2.6	1
1	Harmonized dataset of ozone profiles from satellite limb and occultation measurements		1