# Erkki Kyrl

## List of Publications by Year in Descending Order



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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 | Overview and update of the SPARC Data Initiative: comparison of stratospheric composition measurements from satellite limb sounders. *Earth System Science Data*, **2021**, 13, 1855-1903 | 10.5 | 3 |
| 42 | Systematic comparison of vectorial spherical radiative transfer models in limb scattering geometry. *Atmospheric Measurement Techniques*, **2021**, 14, 3953-3972 | 4 | 4 |
| 41 | Measurement report: regional trends of stratospheric ozone evaluated using the MErged GRIdded Dataset of Ozone Profiles (MEGRIDOP). *Atmospheric Chemistry and Physics*, **2021**, 21, 6707-6720 | 6.8 | 5 |
| 40 | Space-Based Observations for Understanding Changes in the Arctic-Boreal Zone. *Reviews of Geophysics*, **2020**, 58, e2019RG000652 | 23.1 | 23 |
| 39 | Middle atmospheric ozone, nitrogen dioxide and nitrogen trioxide in 2002–2011: SD-WACCM simulations compared to GOMOS observations. *Atmospheric Chemistry and Physics*, **2018**, 18, 5001-5019 | 6.8 | 2 |
| 38 | Merged SAGE II, Ozone_cci and OMPS ozone profile dataset and evaluation of ozone trends in the stratosphere. *Atmospheric Chemistry and Physics*, **2017**, 17, 12533-12552 | 6.8 | 33 |
| 37 | Improved GOMOS/Envisat ozone retrievals in the upper troposphere and the lower stratosphere. *Atmospheric Measurement Techniques*, **2017**, 10, 231-246 | 4 | 8 |
| 36 | Absorption cross-sections of ozone in the ultraviolet and visible spectral regions: Status report 2015. *Journal of Molecular Spectroscopy*, **2016**, 327, 105-121 | 1.3 | 45 |
| 35 | Ground-based assessment of the bias and long-term stability of fourteen limb and occultation ozone profile data records. *Atmospheric Measurement Techniques*, **2016**, 9, 2497-2534 | 4 | 9 |
| 34 | AerGOM, an improved algorithm for stratospheric aerosol extinction retrieval from GOMOS observations – Part 1: Algorithm description. *Atmospheric Measurement Techniques*, **2016**, 9, 4687-4700 | 4 | 10 |
| 33 | Ground-based assessment of the bias and long-term stability of 14 limb and occultation ozone profile data records. *Atmospheric Measurement Techniques*, **2016**, 9, 2497-2534 | 4 | 74 |
| 32 | Relative drifts and biases between six ozone limb satellite measurements from the last decade **2015**, | | 1 |
| 31 | Intercomparison of vertically resolved merged satellite ozone data sets: interannual variability and long-term trends. *Atmospheric Chemistry and Physics*, **2015**, 15, 3021-3043 | 6.8 | 51 |
| 30 | GOMOS bright limb ozone data set. *Atmospheric Measurement Techniques*, **2015**, 8, 3107-3115 | 4 | 4 |
| 29 | Relative drifts and biases between six ozone limb satellite measurements from the last decade. *Atmospheric Measurement Techniques*, **2015**, 8, 4369-4381 | 4 | 12 |
| 28 | Trends in stratospheric ozone derived from merged SAGE II and Odin-OSIRIS satellite observations. *Atmospheric Chemistry and Physics*, **2014**, 14, 6983-6994 | 6.8 | 58 |
| 27 | Analysing time-varying trends in stratospheric ozone time series using the state space approach. *Atmospheric Chemistry and Physics*, **2014**, 14, 9707-9725 | 6.8 | 39 |

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| 26 | A novel tropopause-related climatology of ozone profiles. *Atmospheric Chemistry and Physics*, **2014**, 14, 283-299 | 6.8 | 16 |
| 25 | Validation of GOMOS ozone precision estimates in the stratosphere. *Atmospheric Measurement Techniques*, **2014**, 7, 2147-2158 | 4 | 11 |
| 24 | OClO slant column densities derived from GOMOS averaged transmittance measurements. *Atmospheric Measurement Techniques*, **2013**, 6, 2953-2964 | 4 | 1 |
| 23 | Harmonized dataset of ozone profiles from satellite limb and occultation measurements. *Earth System Science Data*, **2013**, 5, 349-363 | 10.5 | 40 |
| 22 | Combined SAGE II–GOMOS ozone profile data set for 1984–2011 and trend analysis of the vertical distribution of ozone. *Atmospheric Chemistry and Physics*, **2013**, 13, 10645-10658 | 6.8 | 81 |
| 21 | The roles of vertical advection and eddy diffusion in the equatorial mesospheric semi-annual oscillation (MSAO). *Atmospheric Chemistry and Physics*, **2013**, 13, 7813-7824 | 6.8 | 5 |
| 20 | A Madden–Julian Oscillation-triggered record ozone minimum over the Tibetan Plateau in December 2003 and its association with stratospheric "low-ozone pockets". *Geophysical Research Letters*, **2009**, 36, n/a-n/a | 4.9 | 21 |
| 19 | Satellite observations of high nighttime ozone at the equatorial mesopause. *Journal of Geophysical Research*, **2008**, 113, | | 43 |
| 18 | Arctic and Antarctic polar winter NOx and energetic particle precipitation in 2002–2006. *Geophysical Research Letters*, **2007**, 34, | 4.9 | 84 |
| 17 | Large increase of NO2 in the north polar mesosphere in January–February 2004: Evidence of a dynamical origin from GOMOS/ENVISAT and SABER/TIMED data. *Geophysical Research Letters*, **2007**, 34, | 4.9 | 62 |
| 16 | Interplanetary hydrogen absolute ionization rates: Retrieving the solar wind mass flux latitude and cycle dependence with SWAN/SOHO maps. *Journal of Geophysical Research*, **2006**, 111, | | 37 |
| 15 | Response of interplanetary glow to global variations of hydrogen ionization rate and solar Lyman-α flux. *Journal of Geophysical Research*, **2002**, 107, SSH 2-1 | | 12 |
| 14 | Discovery of a comet by its Lyman-alpha emission. *Nature*, **2000**, 405, 321-2 | 50.4 | 13 |
| 13 | Monitoring solar activity on the far side of the sun from sky reflected Lyman-α radiation. *Geophysical Research Letters*, **2000**, 27, 1331-1334 | 4.9 | 22 |
| 12 | Swan Observations of the Solar Wind Latitude Distribution and its Evolution Since Launch. *Space Science Reviews*, **1999**, 87, 129-132 | 7.5 | 20 |
| 11 | Multiple scattering radiance in limb-viewing geometry. *Journal of Geophysical Research*, **1999**, 104, 31261-31274 | | 37 |
| 10 | COMMENTS ON THE PAPER: RECALCULATION OF H-L SKY SURVEYS: NO NEED FOR ANISOTROPIC SOLAR WIND MASS OUTFLOWS?. *Solar Physics*, **1997**, 170, 365-370 | 2.6 | 1 |
| 9 | Long-time limit of a quasicontinuum model. *Optics Communications*, **1985**, 56, 17-21 | 2 | 19 |

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| 8 | Probe spectroscopy in an inhomogeneously broadened three-level system saturated by an intense standing wave. *Physical Review A*, **1981**, 23, 1874-1892 | 2.6 | 18 |
| 7 | Probe-spectroscopy of multi-Doppleron processes. *Optics Communications*, **1979**, 30, 37-40 | 2 | 8 |
| 6 | Velocity tuned resonances as multi-doppleron processes. *Optics Communications*, **1977**, 22, 123-126 | 2 | 93 |
| 5 | Analyzing time varying trends in stratospheric ozone time series using state space approach | | 4 |
| 4 | Trends in stratospheric ozone derived from merged SAGE II and Odin-OSIRIS satellite observations | | 4 |
| 3 | Harmonized dataset of ozone profiles from satellite limb and occultation measurements | | 1 |
| 2 | Combined SAGE II-GOMOS ozone profile data set 1984–2011 and trend analysis of the vertical distribution of ozone | | 4 |
| 1 | Systematic Comparison of Vectorial Spherical Radiative Transfer Models in Limb Scattering Geometry | | 2 |