

# Kaisa Lakkala

## List of Publications by Year in descending order

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Version: 2024-02-01

62  
papers

2,233  
citations

279798  
23  
h-index

233421  
45  
g-index

90  
all docs

90  
docs citations

90  
times ranked

3942  
citing authors

#	ARTICLE	IF	CITATIONS
1	The positive impact of general vitamin D food fortification policy on vitamin D status in a representative adult Finnish population: evidence from an 11-y follow-up based on standardized 25-hydroxyvitamin D data. American Journal of Clinical Nutrition, 2017, 105, 1512-1520.	4.7	179
2	State of the Climate in 2018. Bulletin of the American Meteorological Society, 2019, 100, Si-S306.	3.3	168
3	State of the Climate in 2017. Bulletin of the American Meteorological Society, 2018, 99, Si-S310.	3.3	160
4	State of the Climate in 2015. Bulletin of the American Meteorological Society, 2016, 97, Si-S275.	3.3	142
5	State of the Climate in 2013. Bulletin of the American Meteorological Society, 2014, 95, S1-S279.	3.3	138
6	State of the Climate in 2016. Bulletin of the American Meteorological Society, 2017, 98, Si-S280.	3.3	132
7	Validation of daily erythemal doses from Ozone Monitoring Instrument with ground-based UV measurement data. Journal of Geophysical Research, 2007, 112, .	3.3	129
8	State of the Climate in 2012. Bulletin of the American Meteorological Society, 2013, 94, S1-S258.	3.3	129
9	State of the Climate in 2011. Bulletin of the American Meteorological Society, 2012, 93, S1-S282.	3.3	121
10	State of the Climate in 2014. Bulletin of the American Meteorological Society, 2015, 96, ES1-ES32.	3.3	78
11	A method for reconstruction of past UV radiation based on radiative transfer modeling: Applied to four stations in northern Europe. Journal of Geophysical Research, 2007, 112, .	3.3	52
12	Quality assurance of the Brewer spectral UV measurements in Finland. Atmospheric Chemistry and Physics, 2008, 8, 3369-3383.	4.9	50
13	Comparison of satellite-derived UV irradiances with ground-based measurements at four European stations. Journal of Geophysical Research, 2006, 111, .	3.3	46
14	Comparison of OMI UV observations with ground-based measurements at high northern latitudes. Atmospheric Chemistry and Physics, 2015, 15, 7391-7412.	4.9	40
15	High levels of ultraviolet radiation observed by ground-based instruments below the 2011 Arctic ozone hole. Atmospheric Chemistry and Physics, 2013, 13, 10573-10590.	4.9	39
16	Solar UV Irradiance in a Changing Climate: Trends in Europe and the Significance of Spectral Monitoring in Italy. Environments - MDPI, 2020, 7, 1.	3.3	39
17	Spectral UV Measurements at Sodankylä during 1990–2001. Journal of Geophysical Research, 2003, 108, .	3.3	33
18	Diurnal variations in the UV albedo of arctic snow. Atmospheric Chemistry and Physics, 2008, 8, 6551-6563.	4.9	32

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19	Europe's darker atmosphere in the UV-B. Photochemical and Photobiological Sciences, 2008, 7, 925-930.	2.9	30
20	Record-Breaking Increases in Arctic Solar Ultraviolet Radiation Caused by Exceptionally Large Ozone Depletion in 2020. Geophysical Research Letters, 2020, 47, e2020GL090844.	4.0	30
21	Effect of the temperature and the exclusion of UVB radiation on the phenolics and iridoids in <i>Menyanthes trifoliata</i> L. leaves in the subarctic. Environmental Pollution, 2009, 157, 3471-3478.	7.5	28
22	Factors affecting short- and long-term changes of spectral UV irradiance at two European stations. Journal of Geophysical Research, 2003, 108, .	3.3	26
23	Reconstruction of Solar Spectral Surface UV Irradiances Using Radiative Transfer Simulations. Photochemistry and Photobiology, 2009, 85, 1233-1239.	2.5	24
24	Compensating for the Effects of Stray Light in Single-Monochromator Brewer Spectrophotometer Ozone Retrieval. Atmosphere - Ocean, 2015, 53, 66-73.	1.6	24
25	Ozone and Spectroradiometric UV Changes in the Past 20 Years over High Latitudes. Atmosphere - Ocean, 2015, 53, 117-125.	1.6	23
26	The TROPOMI surface UV algorithm. Atmospheric Measurement Techniques, 2018, 11, 997-1008.	3.1	23
27	Environmental specimen bank samples of <i>Pleurozium schreberi</i> and <i>Hylocomium splendens</i> as indicators of the radiation environment at the surface. Environmental Pollution, 2005, 133, 315-326.	7.5	20
28	Twenty-five years of spectral UV-B measurements over Canada, Europe and Japan: Trends and effects from changes in ozone, aerosols, clouds, and surface reflectivity. Comptes Rendus - Geoscience, 2018, 350, .	1.2	18
29	Influence of solar UV radiation on the nitrogen metabolism in needles of Scots pine ( <i>Pinus sylvestris</i> ) Tj ETQq1 1 0.784314 rgBT /Overlo	7.5	17
30	Validation of the TROPOspheric Monitoring Instrument (TROPOMI) surface UV radiation product. Atmospheric Measurement Techniques, 2020, 13, 6999-7024.	3.1	17
31	Quality assurance of the solar UV network in the Antarctic. Journal of Geophysical Research, 2005, 110, .	3.3	16
32	The link between springtime total ozone and summer UV radiation in Northern Hemisphere extratropics. Journal of Geophysical Research D: Atmospheres, 2013, 118, 8649-8661.	3.3	16
33	Spike detection and correction in Brewer spectroradiometer ultraviolet spectra. Optical Engineering, 2003, 42, 1812.	1.0	15
34	Seasonal acclimation of the moss <i>Polytrichum juniperinum</i> Hedw. to natural and enhanced ultraviolet radiation. Environmental Pollution, 2010, 158, 891-900.	7.5	13
35	Data flow of spectral UV measurements at Sodankylä and Jokioinen. Geoscientific Instrumentation, Methods and Data Systems, 2016, 5, 193-203.	1.6	13
36	Description and validation of the OMI very fast delivery products. Journal of Geophysical Research, 2008, 113, .	3.3	12

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37	The PROMOTE UV Record: Toward a Global Satellite-Based Climatology of Surface Ultraviolet Irradiance. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2009, 2, 207-212.	4.9	11
38	European UV DataBase (EUVDB) as a repository and quality analyser for solar spectral UV irradiance monitored in Sodankylä. Geoscientific Instrumentation, Methods and Data Systems, 2016, 5, 333-345.	1.6	10
39	A new method for estimating UV fluxes at ground level in cloud-free conditions. Atmospheric Measurement Techniques, 2017, 10, 4965-4978.	3.1	10
40	Solar UV radiation measurements in Marambio, Antarctica, during years 2017–2019. Atmospheric Chemistry and Physics, 2020, 20, 6037-6054.	4.9	9
41	Real-time UV index retrieval in Europe using Earth observation-based techniques: system description and quality assessment. Atmospheric Measurement Techniques, 2021, 14, 5657-5699.	3.1	9
42	UV-Indien network: ground-based measurements dedicated to the monitoring of UV radiation over the western Indian Ocean. Earth System Science Data, 2021, 13, 4275-4301.	9.9	9
43	New continuous total ozone, UV, VIS and PAR measurements at Marambio, 64°S, Antarctica. Earth System Science Data, 2020, 12, 947-960.	9.9	9
44	Temperature dependence of the Brewer global UV measurements. Atmospheric Measurement Techniques, 2017, 10, 4491-4505.	3.1	8
45	UV measurements at Marambio and Ushuaia during 2000–2010. Atmospheric Chemistry and Physics, 2018, 18, 16019-16031.	4.9	8
46	Diurnal discrepancies in spectral solar UV radiation measurements. Applied Optics, 2006, 45, 5346.	2.1	7
47	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. International Journal of Circumpolar Health, 2017, 76, 1272790.	1.2	7
48	Performance of the FMI cosine error correction method for the Brewer spectral UV measurements. Atmospheric Measurement Techniques, 2018, 11, 5167-5180.	3.1	7
49	In search of traceability: two decades of calibrated Brewer UV measurements in Sodankylä and Jokioinen. Geoscientific Instrumentation, Methods and Data Systems, 2016, 5, 531-540.	1.6	7
50	Out-of-Range Stray Light Characterization of Single-Monochromator Brewer Spectrophotometers. Atmosphere - Ocean, 2018, 56, 1-11.	1.6	6
51	Effects of solar UV radiation on birch and pine seedlings in the sub-Arctic. Polar Record, 2002, 38, 233-240.	0.8	5
52	Brewer spectrometer total ozone column measurements in Sodankylä. Geoscientific Instrumentation, Methods and Data Systems, 2016, 5, 229-239.	1.6	5
53	On the usability of the ERA-40 reanalysis in the estimation of past surface UV radiation over Europe. Journal of Geophysical Research, 2010, 115, .	3.3	4
54	Decreased frost hardiness of <i>Vaccinium vitis-idaea</i> in response to UV-A radiation. Physiologia Plantarum, 2012, 145, 516-526.	5.2	4

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55	25 years of spectral UV measurements at Sodankylä. AIP Conference Proceedings, 2017, , .	0.4	4
56	Assessment of TOMS UV bias due to absorbing aerosols. , 2004, , .		3
57	Optical laboratory facilities at the Finnish Meteorological Institute â€“ Arctic Research Centre. Geoscientific Instrumentation, Methods and Data Systems, 2016, 5, 315-320.	1.6	3
58	Monitoring Solar Radiation UV Exposure in the Comoros. International Journal of Environmental Research and Public Health, 2021, 18, 10475.	2.6	3
59	An efficient approach for site-specific scenery prediction in surveillance imaging near Earth's surface. , 2006, 6365, 61.		1
60	Calibrating six years of multiband UV measurements at Ushuaia and Marambio for model and satellite comparisons. , 2006, 6362, 575.		0
61	Two decades of spectral UV measurements at Sodankylä. , 2013, , .		0
62	Variability of daily UV index in Jokioinen, Finland, in 1995-2015. AIP Conference Proceedings, 2017, , .	0.4	0