

# Kaisa Lakkala

## List of Publications by Year in descending order

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Version: 2024-02-01

62  
papers

2,233  
citations

279487

23  
h-index

233125

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. <i>American Journal of Clinical Nutrition</i> , 2017, 105, 1512-1520.	2.2	179
2	State of the Climate in 2018. <i>Bulletin of the American Meteorological Society</i> , 2019, 100, Si-S306.	1.7	168
3	State of the Climate in 2017. <i>Bulletin of the American Meteorological Society</i> , 2018, 99, Si-S310.	1.7	160
4	State of the Climate in 2015. <i>Bulletin of the American Meteorological Society</i> , 2016, 97, Si-S275.	1.7	142
5	State of the Climate in 2013. <i>Bulletin of the American Meteorological Society</i> , 2014, 95, S1-S279.	1.7	138
6	State of the Climate in 2016. <i>Bulletin of the American Meteorological Society</i> , 2017, 98, Si-S280.	1.7	132
7	Validation of daily erythemal doses from Ozone Monitoring Instrument with ground-based UV measurement data. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	129
8	State of the Climate in 2012. <i>Bulletin of the American Meteorological Society</i> , 2013, 94, S1-S258.	1.7	129
9	State of the Climate in 2011. <i>Bulletin of the American Meteorological Society</i> , 2012, 93, S1-S282.	1.7	121
10	State of the Climate in 2014. <i>Bulletin of the American Meteorological Society</i> , 2015, 96, ES1-ES32.	1.7	78
11	A method for reconstruction of past UV radiation based on radiative transfer modeling: Applied to four stations in northern Europe. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	52
12	Quality assurance of the Brewer spectral UV measurements in Finland. <i>Atmospheric Chemistry and Physics</i> , 2008, 8, 3369-3383.	1.9	50
13	Comparison of satellite-derived UV irradiances with ground-based measurements at four European stations. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	46
14	Comparison of OMI UV observations with ground-based measurements at high northern latitudes. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 7391-7412.	1.9	40
15	High levels of ultraviolet radiation observed by ground-based instruments below the 2011 Arctic ozone hole. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 10573-10590.	1.9	39
16	Solar UV Irradiance in a Changing Climate: Trends in Europe and the Significance of Spectral Monitoring in Italy. <i>Environments - MDPI</i> , 2020, 7, 1.	1.5	39
17	Spectral UV Measurements at Sodankylä during 1990–2001. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	33
18	Diurnal variations in the UV albedo of arctic snow. <i>Atmospheric Chemistry and Physics</i> , 2008, 8, 6551-6563.	1.9	32

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19	Europe's darker atmosphere in the UV-B. <i>Photochemical and Photobiological Sciences</i> , 2008, 7, 925-930.	1.6	30
20	Record-breaking Increases in Arctic Solar Ultraviolet Radiation Caused by Exceptionally Large Ozone Depletion in 2020. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL090844.	1.5	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. <i>Environmental Pollution</i> , 2009, 157, 3471-3478.	3.7	28
22	Factors affecting short- and long-term changes of spectral UV irradiance at two European stations. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	26
23	Reconstruction of Solar Spectral Surface UV Irradiances Using Radiative Transfer Simulations. <i>Photochemistry and Photobiology</i> , 2009, 85, 1233-1239.	1.3	24
24	Compensating for the Effects of Stray Light in Single-Monochromator Brewer Spectrophotometer Ozone Retrieval. <i>Atmosphere - Ocean</i> , 2015, 53, 66-73.	0.6	24
25	Ozone and Spectroradiometric UV Changes in the Past 20 Years over High Latitudes. <i>Atmosphere - Ocean</i> , 2015, 53, 117-125.	0.6	23
26	The TROPOMI surface UV algorithm. <i>Atmospheric Measurement Techniques</i> , 2018, 11, 997-1008.	1.2	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. <i>Environmental Pollution</i> , 2005, 133, 315-326.	3.7	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. <i>Comptes Rendus - Geoscience</i> , 2018, 350, .	0.4	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	3.7	17
30	Validation of the TROPOMI surface UV radiation product. <i>Atmospheric Measurement Techniques</i> , 2020, 13, 6999-7024.	1.2	17
31	Quality assurance of the solar UV network in the Antarctic. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	16
32	The link between springtime total ozone and summer UV radiation in Northern Hemisphere extratropics. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 8649-8661.	1.2	16
33	Spike detection and correction in Brewer spectroradiometer ultraviolet spectra. <i>Optical Engineering</i> , 2003, 42, 1812.	0.5	15
34	Seasonal acclimation of the moss <i>Polytrichum juniperinum</i> Hedw. to natural and enhanced ultraviolet radiation. <i>Environmental Pollution</i> , 2010, 158, 891-900.	3.7	13
35	Data flow of spectral UV measurements at Sodankylä and Jokioinen. <i>Geoscientific Instrumentation, Methods and Data Systems</i> , 2016, 5, 193-203.	0.6	13
36	Description and validation of the OMI very fast delivery products. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	12

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37	The PROMOTE UV Record: Toward a Global Satellite-Based Climatology of Surface Ultraviolet Irradiance. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2009, 2, 207-212.	2.3	11
38	European UV DataBase (EUVDB) as a repository and quality analyser for solar spectral UV irradiance monitored in Sodankylä. <i>Geoscientific Instrumentation, Methods and Data Systems</i> , 2016, 5, 333-345.	0.6	10
39	A new method for estimating UV fluxes at ground level in cloud-free conditions. <i>Atmospheric Measurement Techniques</i> , 2017, 10, 4965-4978.	1.2	10
40	Solar UV radiation measurements in Marambio, Antarctica, during years 2017–2019. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 6037-6054.	1.9	9
41	Real-time UV index retrieval in Europe using Earth observation-based techniques: system description and quality assessment. <i>Atmospheric Measurement Techniques</i> , 2021, 14, 5657-5699.	1.2	9
42	UV-Indien network: ground-based measurements dedicated to the monitoring of UV radiation over the western Indian Ocean. <i>Earth System Science Data</i> , 2021, 13, 4275-4301.	3.7	9
43	New continuous total ozone, UV, VIS and PAR measurements at Marambio, 64°S, Antarctica. <i>Earth System Science Data</i> , 2020, 12, 947-960.	3.7	9
44	Temperature dependence of the Brewer global UV measurements. <i>Atmospheric Measurement Techniques</i> , 2017, 10, 4491-4505.	1.2	8
45	UV measurements at Marambio and Ushuaia during 2000–2010. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 16019-16031.	1.9	8
46	Diurnal discrepancies in spectral solar UV radiation measurements. <i>Applied Optics</i> , 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. <i>International Journal of Circumpolar Health</i> , 2017, 76, 1272790.	0.5	7
48	Performance of the FMI cosine error correction method for the Brewer spectral UV measurements. <i>Atmospheric Measurement Techniques</i> , 2018, 11, 5167-5180.	1.2	7
49	In search of traceability: two decades of calibrated Brewer UV measurements in Sodankylä and Jokioinen. <i>Geoscientific Instrumentation, Methods and Data Systems</i> , 2016, 5, 531-540.	0.6	7
50	Out-of-Range Stray Light Characterization of Single-Monochromator Brewer Spectrophotometers. <i>Atmosphere - Ocean</i> , 2018, 56, 1-11.	0.6	6
51	Effects of solar UV radiation on birch and pine seedlings in the sub-Arctic. <i>Polar Record</i> , 2002, 38, 233-240.	0.4	5
52	Brewer spectrometer total ozone column measurements in Sodankylä. <i>Geoscientific Instrumentation, Methods and Data Systems</i> , 2016, 5, 229-239.	0.6	5
53	On the usability of the ERA-40 reanalysis in the estimation of past surface UV radiation over Europe. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	4
54	Decreased frost hardiness of <i>Vaccinium vitis-idaea</i> in response to UV-A radiation. <i>Physiologia Plantarum</i> , 2012, 145, 516-526.	2.6	4

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55	25 years of spectral UV measurements at Sodankylä. AIP Conference Proceedings, 2017, , .	0.3	4
56	Assessment of TOMS UV bias due to absorbing aerosols. , 2004, , .		3
57	Optical laboratory facilities at the Finnish Meteorological Institute â€œ Arctic Research Centre. Geoscientific Instrumentation, Methods and Data Systems, 2016, 5, 315-320.	0.6	3
58	Monitoring Solar Radiation UV Exposure in the Comoros. International Journal of Environmental Research and Public Health, 2021, 18, 10475.	1.2	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, , .	0.3	0