

Anders V Lindfors

List of Publications by Year in descending order

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65
papers

2,318
citations

201385

27
h-index

233125

45
g-index

88
all docs

88
docs citations

88
times ranked

2822
citing authors

#	ARTICLE	IF	CITATIONS
1	Tropospheric emissions: Monitoring of pollution (TEMPO). Journal of Quantitative Spectroscopy and Radiative Transfer, 2017, 186, 17-39.	1.1	239
2	Multiple Roles for UV RESISTANCE LOCUS8 in Regulating Gene Expression and Metabolite Accumulation in Arabidopsis under Solar Ultraviolet Radiation A Å. Plant Physiology, 2013, 161, 744-759.	2.3	170
3	Validation of daily erythemal doses from Ozone Monitoring Instrument with ground-based UV measurement data. Journal of Geophysical Research, 2007, 112, .	3.3	129
4	Extensive validation of CM SAF surface radiation products over Europe. Remote Sensing of Environment, 2017, 199, 171-186.	4.6	80
5	Epidermal UV absorbance and whole leaf flavonoid composition in pea respond more to solar blue light than to solar UV radiation. Plant, Cell and Environment, 2015, 38, 941-952.	2.8	79
6	Metabolite specific effects of solar UV-A and UV-B on alder and birch leaf phenolics. Global Change Biology, 2008, 14, 1294-1304.	4.2	73
7	A new approach to correct for absorbing aerosols in OMI UV. Geophysical Research Letters, 2009, 36, .	1.5	71
8	Diffuse solar radiation and canopy photosynthesis in a changing environment. Agricultural and Forest Meteorology, 2021, 311, 108684.	1.9	66
9	Comparing ECMWF AOD with AERONET observations at visible and UV wavelengths. Atmospheric Chemistry and Physics, 2014, 14, 593-608.	1.9	65
10	Reconstructing of erythemal ultraviolet radiation levels in Europe for the past 4 decades. Journal of Geophysical Research, 2010, 115, .	3.3	62
11	Quality control of global solar radiation data with satellite-based products. Solar Energy, 2017, 158, 49-62.	2.9	60
12	Erythemal UV at Davos (Switzerland), 1926-2003, estimated using total ozone, sunshine duration, and snow depth. Journal of Geophysical Research, 2005, 110, .	3.3	57
13	How do cryptochromes and UVR8 interact in natural and simulated sunlight?. Journal of Experimental Botany, 2019, 70, 4975-4990.	2.4	57
14	Towards Universal Wavelength-Specific Photodegradation Rate Constants for Methyl Mercury in Humic Waters, Exemplified by a Boreal Lake-Wetland Gradient. Environmental Science & Technology, 2013, 47, 6279-6287.	4.6	56
15	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
16	The photoreceptor UVR8 mediates the perception of both UV-B and UV-A wavelengths up to 350 nm of sunlight with responsivity moderated by cryptochromes. Plant, Cell and Environment, 2020, 43, 1513-1527.	2.8	52
17	On the wavelength-dependent attenuation of UV radiation by clouds. Geophysical Research Letters, 2008, 35, .	1.5	50
18	Quality assurance of the Brewer spectral UV measurements in Finland. Atmospheric Chemistry and Physics, 2008, 8, 3369-3383.	1.9	50

#	ARTICLE	IF	CITATIONS
19	A case study on biomass burning aerosols: effects on aerosol optical properties and surface radiation levels. <i>Atmospheric Chemistry and Physics</i> , 2007, 7, 4257-4266.	1.9	45
20	Patterns in the spectral composition of sunlight and biologically meaningful spectral photon ratios as affected by atmospheric factors. <i>Agricultural and Forest Meteorology</i> , 2020, 291, 108041.	1.9	42
21	Long-term erythemal UV doses at Sodankylä estimated using total ozone, sunshine duration, and snow depth. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	40
22	Assessment of UV Biological Spectral Weighting Functions for Phenolic Metabolites and Growth Responses in Silver Birch Seedlings. <i>Photochemistry and Photobiology</i> , 2009, 85, 1346-1355.	1.3	39
23	Validation of CM SAF Surface Solar Radiation Datasets over Finland and Sweden. <i>Remote Sensing</i> , 2015, 7, 6663-6682.	1.8	39
24	Global horizontal irradiance forecast for Finland based on geostationary weather satellite data. <i>Solar Energy</i> , 2020, 198, 68-80.	2.9	38
25	Temporal variation in epidermal flavonoids due to altered solar UV radiation is moderated by the leaf position in <i>Betula pendula</i> . <i>Physiologia Plantarum</i> , 2011, 143, 261-270.	2.6	35
26	Quantifying the amplified bias of PV system simulations due to uncertainties in solar radiation estimates. <i>Solar Energy</i> , 2018, 176, 663-677.	2.9	35
27	Influence of observed diurnal cycles of aerosol optical depth on aerosol direct radiative effect. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 7895-7901.	1.9	32
28	Relationship between high daily erythemal UV doses, total ozone, surface albedo and cloudiness: An analysis of 30years of data from Switzerland and Austria. <i>Atmospheric Research</i> , 2010, 98, 9-20.	1.8	31
29	Long-term solar UV radiation reconstructed by ANN modelling with emphasis on spatial characteristics of input data. <i>Atmospheric Chemistry and Physics</i> , 2008, 8, 3107-3118.	1.9	26
30	Responses of flavonoid profile and associated gene expression to solar blue and UV radiation in two accessions of <i>Vicia faba</i> L. from contrasting UV environments. <i>Photochemical and Photobiological Sciences</i> , 2019, 18, 434-447.	1.6	26
31	Site-specific adjustment of a NWP-based photovoltaic production forecast. <i>Solar Energy</i> , 2020, 211, 779-788.	2.9	26
32	Reconstruction of Solar Spectral Surface UV Irradiances Using Radiative Transfer Simulations. <i>Photochemistry and Photobiology</i> , 2009, 85, 1233-1239.	1.3	24
33	Direct radiative effect by brown carbon over the Indo-Gangetic Plain. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 12731-12740.	1.9	24
34	Validation of the SARAHE Satellite-Based Surface Solar Radiation Estimates over India. <i>Remote Sensing</i> , 2018, 10, 392.	1.8	24
35	The TROPOMI surface UV algorithm. <i>Atmospheric Measurement Techniques</i> , 2018, 11, 997-1008.	1.2	23
36	Retrieval of aerosol optical depth from surface solar radiation measurements using machine learning algorithms, non-linear regression and a radiative transfer-based look-up table. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 8181-8191.	1.9	21

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37	Climatological Diurnal Cycles in Clear-Sky Brightness Temperatures from the High-Resolution Infrared Radiation Sounder (HIRS). <i>Journal of Atmospheric and Oceanic Technology</i> , 2011, 28, 1199-1205.	0.5	19
38	Effective aerosol optical depth from pyranometer measurements of surface solar radiation (global) Tj ETQq0 0 0 rgBT/Overlogg 10 Tf 50	1.9	18
39	Validation of the TROPOspheric Monitoring Instrument (TROPOMI) surface UV radiation product. <i>Atmospheric Measurement Techniques</i> , 2020, 13, 6999-7024.	1.2	17
40	Seasonal fluctuations in leaf phenolic composition under UV manipulations reflect contrasting strategies of alder and birch trees. <i>Physiologia Plantarum</i> , 2010, 140, no-no.	2.6	16
41	Photovoltaic system modeling: A validation study at high latitudes with implementation of a novel DNI quality control method. <i>Solar Energy</i> , 2020, 204, 316-329.	2.9	16
42	How Realistically Does Outdoor UVâ€B Supplementation with Lamps Reflect Ozone Depletion: An Assessment of Enhancement Errors. <i>Photochemistry and Photobiology</i> , 2011, 87, 174-183.	1.3	15
43	On the Computation of Apparent Direct Solar Radiation. <i>Journals of the Atmospheric Sciences</i> , 2019, 76, 2761-2780.	0.6	14
44	Data flow of spectral UV measurements at SodankylÃ and Jokioinen. <i>Geoscientific Instrumentation, Methods and Data Systems</i> , 2016, 5, 193-203.	0.6	13
45	Progress towards flowering of faba bean (<i><sc>V</sc>icia faba</i>Â<sc>L</sc>.) is more than photothermal. <i>Journal of Agronomy and Crop Science</i> , 2017, 203, 385-396.	1.7	13
46	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
47	Effect of water vapor on the determination of aerosol direct radiative effect based on the AERONET fluxes. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 6103-6110.	1.9	11
48	Are solar UVâ€Bâ€C and UVâ€Aâ€C dependent gene expression and metabolite accumulation in <i>Arabidopsis</i> mediated by the stress response regulator RADICALâ€INDUCED CELL DEATH1?. <i>Plant, Cell and Environment</i> , 2015, 38, 878-891.	2.8	11
49	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
50	Future Changes in Incident Surface Solar Radiation and Contributing Factors in India in CMIP5 Climate Model Simulations. <i>Journal of Applied Meteorology and Climatology</i> , 2019, 58, 19-35.	0.6	10
51	Technical Note: A novel parameterization of the transmissivity due to ozone absorption in the <i><math>\lambda</math></i>-distribution method and correlated-<i><math>\lambda</math></i>; approximation of Kato et al. (1999) over the UV band. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 7449-7456.	1.9	9
52	Climate Modelâ€Simulated Diurnal Cycles in HIRS Clear-Sky Brightness Temperatures. <i>Journal of Climate</i> , 2012, 25, 5845-5863.	1.2	8
53	Real-time pricing revisited: Demand flexibility in the presence of micro-generation. <i>Energy Policy</i> , 2018, 123, 642-658.	4.2	8
54	Applying spaceborne reflectivity measurements for calculation of the solar ultraviolet radiation at ground level. <i>Atmospheric Measurement Techniques</i> , 2012, 5, 3041-3054.	1.2	6

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55	Utilizing the flexibility of distributed thermal storage in solar power forecast error cost minimization. <i>Journal of Energy Storage</i> , 2020, 28, 101202.	3.9	6
56	Knowledge creation and interaction in an R&D project: the case of the energy weather forecast. <i>Journal of Documentation</i> , 2019, 76, 145-172.	0.9	5
57	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
58	Visualizing Rayleigh Scattering through UV Photography. <i>Bulletin of the American Meteorological Society</i> , 2016, 97, 1561-1564.	1.7	4
59	25 years of spectral UV measurements at Sodankylä. <i>AIP Conference Proceedings</i> , 2017, , .	0.3	4
60	The use of satellite and surface observations for initializing clouds in the HARMONIE NWP model. <i>Meteorological Applications</i> , 2020, 27, e1965.	0.9	4
61	On the Land-Sea Contrast in the Surface Solar Radiation (SSR) in the Baltic Region. <i>Remote Sensing</i> , 2020, 12, 3509.	1.8	4
62	Comparison of irradiance forecasts from operational <sc>NWP</sc> model and satellite-based estimates over Fennoscandia. <i>Meteorological Applications</i> , 2022, 29, .	0.9	4
63	Comparison of radiation parametrizations within the HARMONIE-AROME NWP model. <i>Advances in Science and Research</i> , 0, 15, 81-90.	1.0	2
64	Benefits of Real-Time Pricing and Rooftop Solar PV Generation: Explorations Using Swedish Micro-Data. <i>SSRN Electronic Journal</i> , 0, , .	0.4	1
65	Two decades of spectral UV measurements at Sodankylä. , 2013, , .		0