G H Bernhard

List of Publications by Year
in descending order

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72 papers	3,764 citations	136950 32 h-index	138484 58 g-index
102 all docs	102 docs citations	102 times ranked	4613 citing authors

#	Article	IF	Citations
1	Ozone depletion and climate change: impacts on UV radiation. Photochemical and Photobiological Sciences, 2014, 14, 19-52.	2.9	227
2	Environmental effects of ozone depletion, UV radiation and interactions with climate change: UNEP Environmental Effects Assessment Panel, update 2017. Photochemical and Photobiological Sciences, 2018, 17, 127-179.	2.9	177
3	The Network for the Detection of Atmospheric Composition Change (NDACC): history, status and perspectives. Atmospheric Chemistry and Physics, 2018, 18, 4935-4964.	4.9	162
4	State of the Climate in 2017. Bulletin of the American Meteorological Society, 2018, 99, Si-S310.	3.3	160
5	Ozone depletion, ultraviolet radiation, climate change and prospects for a sustainable future. Nature Sustainability, 2019, 2, 569-579.	23.7	156
6	Uncertainty of measurements of spectral solar UV irradiance. Journal of Geophysical Research, 1999, 104, 14321-14345.	3.3	143
7	State of the Climate in 2015. Bulletin of the American Meteorological Society, 2016, 97, Si-S275.	3.3	142
8	State of the Climate in 2013. Bulletin of the American Meteorological Society, 2014, 95, S1-S279.	3.3	138
9	State of the Climate in 2016. Bulletin of the American Meteorological Society, 2017, 98, Si-S280.	3.3	132
10	Validation of daily erythemal doses from Ozone Monitoring Instrument with groundâ€based UV measurement data. Journal of Geophysical Research, 2007, 112, .	3.3	129
11	State of the Climate in 2012. Bulletin of the American Meteorological Society, 2013, 94, S1-S258.	3.3	129
12	Ozoneâ€"climate interactions and effects on solar ultraviolet radiation. Photochemical and Photobiological Sciences, 2019, 18, 602-640.	2.9	126
13	State of the Climate in 2011. Bulletin of the American Meteorological Society, 2012, 93, S1-S282.	3.3	121
14	SUSPEN intercomparison of ultraviolet spectroradiometers. Journal of Geophysical Research, 2001, 106, 12509-12525.	3.3	99
15	Environmental effects of stratospheric ozone depletion, UV radiation, and interactions with climate change: UNEP Environmental Effects Assessment Panel, Update 2020. Photochemical and Photobiological Sciences, 2021, 20, 1-67.	2.9	93
16	Version 2 data of the National Science Foundation's Ultraviolet Radiation Monitoring Network: South Pole. Journal of Geophysical Research, 2004, 109, n/a-n/a.	3.3	88
17	Geographical differences in the UV Measured by intercompared spectroradiometers. Geophysical Research Letters, 1995, 22, 1889-1892.	4.0	85
18	Measurements of spectral solar UV irradiance in tropical-Australia. Journal of Geophysical Research, 1997, 102, 8719-8730.	3.3	79

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19	State of the Climate in 2014. Bulletin of the American Meteorological Society, 2015, 96, ES1-ES32.	3.3	78
20	UV-B in Germany higher in 1993 than in 1992. Geophysical Research Letters, 1994, 21, 577-580.	4.0	77
21	Bias in Dobson total ozone measurements at high latitudes due to approximations in calculations of ozone absorption coefficients and air mass. Journal of Geophysical Research, 2005, 110, .	3.3	64
22	Environmental effects of ozone depletion and its interactions with climate change: Progress report, 2016. Photochemical and Photobiological Sciences, 2017, 16, 107-145.	2.9	62
23	<title>Cosine error correction of spectral UV-irradiances</title>. , 1993, , .		60
24	Environmental effects of stratospheric ozone depletion, UV radiation and interactions with climate change: UNEP Environmental Effects Assessment Panel, update 2019. Photochemical and Photobiological Sciences, 2020, 19, 542-584.	2.9	59
25	New Spectroradiometers Complying with the NDSC Standards. Journal of Atmospheric and Oceanic Technology, 2006, 23, 241-251.	1.3	54
26	New maximum UV irradiance levels observed in Central Europe. Atmospheric Environment, 1997, 31, 2971-2976.	4.1	53
27	Ultraviolet and visible radiation at Barrow, Alaska: Climatology and influencing factors on the basis of version 2 National Science Foundation network data. Journal of Geophysical Research, 2007, 112, .	3.3	49
28	Environmental effects of ozone depletion and its interactions with climate change: progress report, 2015. Photochemical and Photobiological Sciences, 2016, 15, 141-174.	2.9	48
29	Success of Montreal Protocol Demonstrated by Comparing High-Quality UV Measurements with â€œWorld Avoidedâ€•Calculations from Two Chemistry-Climate Models. Scientific Reports, 2019, 9, 12332.	3.3	44
30	Comparison of OMI UV observations with ground-based measurements at high northern latitudes. Atmospheric Chemistry and Physics, 2015, 15, 7391-7412.	4.9	40
31	Environmental effects of stratospheric ozone depletion, UV radiation, and interactions with climate change: UNEP Environmental Effects Assessment Panel, Update 2021. Photochemical and Photobiological Sciences, 2022, 21, 275-301.	2.9	40
32	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
33	Moderation of Cloud Reduction of UV in the Antarctic Due to High Surface Albedo. Journal of Applied Meteorology and Climatology, 2003, 42, 1174-1183.	1.7	39
34	New Entrance Optics for Solar Spectral UV Measurements. Photochemistry and Photobiology, 1997, 65, 923-930.	2.5	38
35	Calculation of total column ozone from global UV spectra at high latitudes. Journal of Geophysical Research, 2003, 108, .	3.3	33
36	Real-time ultraviolet and column ozone from multichannel ultraviolet radiometers deployed in the National Science Foundationâ€™s ultraviolet monitoring network. Optical Engineering, 2005, 44, 041011.	1.0	32

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37	Recordâ€Breaking Increases in Arctic Solar Ultraviolet Radiation Caused by Exceptionally Large Ozone Depletion in 2020. Geophysical Research Letters, 2020, 47, e2020GL090844.	4.0	30
38	The Arctic. Bulletin of the American Meteorological Society, 2020, 101, S239-S286.	3.3	29
39	Trends of solar ultraviolet irradiance at Barrow, Alaska, and the effect of measurement uncertainties on trend detection. Atmospheric Chemistry and Physics, 2011, 11, 13029-13045.	4.9	27
40	UV climatology at McMurdo Station, Antarctica, based on version 2 data of the National Science Foundation's Ultraviolet Radiation Monitoring Network. Journal of Geophysical Research, 2006, 111, .	3.3	26
41	Comparison of UV irradiance measurements at Summit, Greenland; Barrow, Alaska; and South Pole, Antarctica. Atmospheric Chemistry and Physics, 2008, 8, 4799-4810.	4.9	25
42	High-accuracy spectroradiometry of solar ultraviolet radiation. Metrologia, 1995, 32, 697-700.	1.2	24
43	The 1997 North American Interagency Intercomparison of Ultraviolet Spectroradiometers Including Narrowband Filter Radiometers. Journal of Research of the National Institute of Standards and Technology, 2002, 107, 19-62.	1.2	24
44	The Arctic. Bulletin of the American Meteorological Society, 2021, 102, S263-S316.	3.3	23
45	Intercomparison and harmonization of UV Index measurements from multiband filter radiometers. Journal of Geophysical Research, 2008, 113, .	3.3	21
46	A note on the interannual variations of UV-B erythemal doses and solar irradiance from ground-based and satellite observations. Annales Geophysicae, 2001, 19, 115-120.	1.6	21
47	Climatology of Ultraviolet Radiation at High Latitudes Derived from Measurements of the National Science Foundationâ€™s Ultraviolet Spectral Irradiance Monitoring Network. , 2010, , 48-72.		17
48	Validation of the TROPOspheric Monitoring Instrument (TROPOMI) surface UV radiation product. Atmospheric Measurement Techniques, 2020, 13, 6999-7024.	3.1	17
49	Trends of UV Radiation in Antarctica. Atmosphere, 2020, 11, 795.	2.3	14
50	UV climatology at Palmer Station, Antarctica, based on Version 2 NSF network data. , 2005, , .		12
51	Antarctica and the Southern Ocean. Bulletin of the American Meteorological Society, 2021, 102, S317-S356.	3.3	12
52	Ratio spectra as a quality control tool for solar spectral UV measurements. Journal of Geophysical Research, 1998, 103, 28855-28861.	3.3	11
53	Comment on â€œRecord solar UV irradiance in the tropical Andes, by Cabrol et al.â€• Frontiers in Environmental Science, 2015, 3, .	3.3	11
54	Environmental effects of ozone depletion and its interactions with climate change: 2014 assessment : Executive summary. Photochemical and Photobiological Sciences, 2015, 14, 14-18.	2.9	11

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55	A new method for estimating UV fluxes at ground level in cloud-free conditions. Atmospheric Measurement Techniques, 2017, 10, 4965-4978.	3.1	10
56	Measurements of spectral irradiance during the solar eclipse of 21ÂAugustÂ2017: reassessment of the effect of solar limb darkening and of changes in total ozone. Atmospheric Chemistry and Physics, 2019, 19, 4703-4719.	4.9	10
57	‹title›Comparison of measured and modeled spectral ultraviolet irradiance at Antarctic stations used to determine biases in total ozone data from various sources‹/title›. , 2002, 4482, 115.		9
58	The success of the Montreal Protocol in mitigating interactive effects of stratospheric ozone depletion and climate change on the environment. Global Change Biology, 2021, 27, 5681-5683.	9.5	9
59	New continuous total ozone, UV, VIS and PAR measurements at Marambio, 64Â°â€‰S, Antarctica. Earth System Science Data, 2020, 12, 947-960.	9.9	9
60	Comparison of ultraviolet spectroradiometers in Antarctica. Journal of Geophysical Research, 2008, 113, .	3.3	8
61	2003 North American interagency intercomparison of ultraviolet spectroradiometers: scanning and spectrograph instruments.. Journal of Applied Remote Sensing, 2008, 2, 023547.	1.3	8
62	UV measurements at Marambio and Ushuaia during 2000â€“2010. Atmospheric Chemistry and Physics, 2018, 18, 16019-16031.	4.9	8
63	The quality of data from the National Science Foundation's UV monitoring network for polar regions. , 2003, , .		6
64	Updated analysis of data from Palmer Station, Antarctica (64Â° S), and San Diego, California (32Â° N), confirms large effect of the Antarctic ozone hole on UV radiation. Photochemical and Photobiological Sciences, 2022, 21, 373-384.	2.9	6
65	Accurate 3-D radiative transfer simulation of spectral solar irradiance during the total solar eclipse of 21ÂAugustÂ2017. Atmospheric Chemistry and Physics, 2020, 20, 1961-1976.	4.9	5
66	GUV long-term measurements of total ozone column and effective cloud transmittance at three Norwegian sites. Atmospheric Chemistry and Physics, 2021, 21, 7881-7899.	4.9	5
67	Algorithms and uncertainties for the determination of multispectral irradiance components and aerosol optical depth from a shipborne rotating shadowband radiometer. Atmospheric Measurement Techniques, 2017, 10, 709-730.	3.1	4
68	International intercomparison of multiband filter radiometers in Oslo 2005. , 2006, , .		1
69	Dissemination of data from the National Science Foundation's UV monitoring network. , 2009, , .		1
70	Retrieving vertical ozone profiles from measurements of global spectral irradiance. Atmospheric Measurement Techniques, 2017, 10, 4979-4994.	3.1	1
71	Floral bullseyes and stratospheric ozone. Current Biology, 2021, 31, R885-R887.	3.9	1
72	UV and total ozone climatology at the South Pole based on Version 2 NSF network data. , 2004, 5545, 1.		0