

Richard L Mckenzie

List of Publications by Citations

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113
papers

5,871
citations

42
h-index

75
g-index

118
ext. papers

6,411
ext. citations

6.1
avg, IF

5.4
L-index

#	Paper	IF	Citations
113	Changes in biologically active ultraviolet radiation reaching the Earth's surface. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 1998 , 46, 5-19	6.7	654
112	Ozone depletion and climate change: impacts on UV radiation. <i>Photochemical and Photobiological Sciences</i> , 2011 , 10, 182-98	4.2	305
111	Increased summertime UV radiation in New Zealand in response to ozone loss. <i>Science</i> , 1999 , 285, 1709-13	33.3	283
110	Changes in biologically active ultraviolet radiation reaching the Earth's surface. <i>Photochemical and Photobiological Sciences</i> , 2003 , 2, 5-15	4.2	266
109	Changes in biologically-active ultraviolet radiation reaching the Earth's surface. <i>Photochemical and Photobiological Sciences</i> , 2007 , 6, 218-31	4.2	260
108	Solar ultraviolet radiation in a changing climate. <i>Nature Climate Change</i> , 2014 , 4, 434-441	21.4	221
107	Ozone depletion and climate change: impacts on UV radiation. <i>Photochemical and Photobiological Sciences</i> , 2015 , 14, 19-52	4.2	181
106	Cloud Coverage Based on All-Sky Imaging and Its Impact on Surface Solar Irradiance. <i>Journal of Applied Meteorology and Climatology</i> , 2003 , 42, 1421-1434		171
105	UV radiation: balancing risks and benefits. <i>Photochemistry and Photobiology</i> , 2009 , 85, 88-98	3.6	158
104	Increased ultraviolet radiation in New Zealand (45°S) relative to Germany (48°N). <i>Nature</i> , 1992 , 359, 135-137	50.4	142
103	The relationship between erythemal UV and ozone, derived from spectral irradiance measurements. <i>Geophysical Research Letters</i> , 1991 , 18, 2269-2272	4.9	130
102	Validation of daily erythemal doses from Ozone Monitoring Instrument with ground-based UV measurement data. <i>Journal of Geophysical Research</i> , 2007 , 112,		112
101	Environmental effects of ozone depletion, UV radiation and interactions with climate change: UNEP Environmental Effects Assessment Panel, update 2017. <i>Photochemical and Photobiological Sciences</i> , 2018 , 17, 127-179	4.2	105
100	Observations of depleted stratospheric NO ₂ following the Pinatubo volcanic eruption. <i>Geophysical Research Letters</i> , 1992 , 19, 211-213	4.9	101
99	Satellite retrievals of erythemal UV dose compared with ground-based measurements at northern and southern midlatitudes. <i>Journal of Geophysical Research</i> , 2001 , 106, 24051-24062		86
98	Impact of Pinatubo aerosols on the partitioning between NO ₂ and HNO ₃ . <i>Geophysical Research Letters</i> , 1994 , 21, 597-600	4.9	80
97	Quantifying the ozone and ultraviolet benefits already achieved by the Montreal Protocol. <i>Nature Communications</i> , 2015 , 6, 7233	17.4	79

96	Geographical differences in the UV Measured by intercompared spectroradiometers. <i>Geophysical Research Letters</i> , 1995 , 22, 1889-1892	4.9	78
95	Ozone-climate interactions and effects on solar ultraviolet radiation. <i>Photochemical and Photobiological Sciences</i> , 2019 , 18, 602-640	4.2	78
94	Global ozone trends in potential vorticity coordinates using TOMS and GOME intercompared against the Dobson network: 1978-1998. <i>Journal of Geophysical Research</i> , 2001 , 106, 23029-23042		76
93	An Algorithm for Inferring Surface UV Irradiance Including Cloud Effects. <i>Journal of Applied Meteorology and Climatology</i> , 1996 , 35, 1860-1877		74
92	Measured UV spectra compared with discrete ordinate method simulations. <i>Journal of Geophysical Research</i> , 1994 , 99, 23019		66
91	Relationship between UVB and erythemally weighted radiation. <i>Photochemical and Photobiological Sciences</i> , 2004 , 3, 252-6	4.2	62
90	Ozone depletion, ultraviolet radiation, climate change and prospects for a sustainable future. <i>Nature Sustainability</i> , 2019 , 2, 569-579	22.1	61
89	Altitude effects on UV spectral irradiance deduced from measurements at Lauder, New Zealand, and at Mauna Loa Observatory, Hawaii. <i>Journal of Geophysical Research</i> , 2001 , 106, 22845-22860		61
88	ELDONET--a decade of monitoring solar radiation on five continents. <i>Photochemistry and Photobiology</i> , 2007 , 83, 1348-57	3.6	60
87	Geographical differences in erythemally-weighted UV measured at mid-latitude USDA sites. <i>Photochemical and Photobiological Sciences</i> , 2006 , 5, 343-52	4.2	59
86	Altitude distributions of stratospheric constituents from ground-based measurements at twilight. <i>Journal of Geophysical Research</i> , 1991 , 96, 15499		59
85	Effects of snow cover on UV irradiance and surface albedo: A case study. <i>Journal of Geophysical Research</i> , 1998 , 103, 28785-28792		58
84	First southern hemisphere intercomparison of measured solar UV spectra. <i>Geophysical Research Letters</i> , 1993 , 20, 2223-2226	4.9	57
83	Solar ultraviolet spectroradiometry in New Zealand: instrumentation and sample results from 1990. <i>Applied Optics</i> , 1992 , 31, 6501-9	1.7	54
82	Upwelling UV spectral irradiances and surface albedo measurements at Lauder, New Zealand. <i>Geophysical Research Letters</i> , 1996 , 23, 1757-1760	4.9	53
81	Springtime stratospheric NO ₂ in Antarctica. <i>Geophysical Research Letters</i> , 1984 , 11, 73-75	4.9	53
80	NO ₂ observations at 45°S during the decreasing phase of solar cycle 21, from 1980 to 1987. <i>Journal of Geophysical Research</i> , 1989 , 94, 3473		52
79	Enhanced UV exposure on a ski-field compared with exposures at sea level. <i>Photochemical and Photobiological Sciences</i> , 2005 , 4, 429-37	4.2	51

78	Intercomparison of UV/visible spectrometers for measurements of stratospheric NO ₂ for the Network for the Detection of Stratospheric Change. <i>Journal of Geophysical Research</i> , 1995 , 100, 16765		51
77	Seasonal variations in stratospheric NO ₂ at 45°S. <i>Geophysical Research Letters</i> , 1982 , 9, 1255-1258	4.9	51
76	Erythematous UV irradiances at Lauder, New Zealand: relationship between horizontal and normal incidence. <i>Photochemistry and Photobiology</i> , 1997 , 66, 683-9	3.6	50
75	UV-B Robertson-Berger meter characterization and field calibration. <i>Applied Optics</i> , 1993 , 32, 343-9	1.7	47
74	Estimation of surface shortwave radiation components under all sky conditions: Modeling and sensitivity analysis. <i>Remote Sensing of Environment</i> , 2012 , 123, 457-469	13.2	46
73	Environmental effects of ozone depletion and its interactions with climate change: progress report, 2009. <i>Photochemical and Photobiological Sciences</i> , 2010 , 9, 275-94	4.2	45
72	Stratospheric NO ₂ variations from a long time series at Lauder, New Zealand. <i>Journal of Geophysical Research</i> , 2000 , 105, 11633-11640		43
71	Association of 25-hydroxyvitamin D ₃ levels in adult New Zealanders with ethnicity, skin color and self-reported skin sensitivity to sun exposure. <i>Photochemistry and Photobiology</i> , 2011 , 87, 1173-8	3.6	41
70	UV impacts avoided by the Montreal Protocol. <i>Photochemical and Photobiological Sciences</i> , 2011 , 10, 1152-60	4.2	40
69	New Spectroradiometers Complying with the NDSC Standards. <i>Journal of Atmospheric and Oceanic Technology</i> , 2006 , 23, 241-251	2	40
68	Decay of Mount Pinatubo aerosol at midlatitudes in the northern and southern hemispheres. <i>Journal of Geophysical Research</i> , 1994 , 99, 25733		40
67	A critical assessment of two types of personal UV dosimeters. <i>Photochemistry and Photobiology</i> , 2012 , 88, 215-22	3.6	39
66	Environmental effects of ozone depletion and its interactions with climate change: progress report, 2011. <i>Photochemical and Photobiological Sciences</i> , 2012 , 11, 13-27	4.2	37
65	UV measurements at Mauna Loa: July 1995 to July 1996. <i>Journal of Geophysical Research</i> , 1997 , 102, 19265-19273		37
64	Calibrating Broadband UV Instruments: Ozone and Solar Zenith Angle Dependence. <i>Journal of Atmospheric and Oceanic Technology</i> , 1998 , 15, 916-926	2	34
63	Proposal for a modification of the UVI risk scale. <i>Photochemical and Photobiological Sciences</i> , 2014 , 13, 980-5	4.2	32
62	Soft, stretchable, epidermal sensor with integrated electronics and photochemistry for measuring personal UV exposures. <i>PLoS ONE</i> , 2018 , 13, e0190233	3.7	31
61	Serum 25-hydroxyvitamin-D responses to multiple UV exposures from solarium: inferences for exposure to sunlight. <i>Photochemical and Photobiological Sciences</i> , 2012 , 11, 1174-85	4.2	28

60	Long-path absorption measurements of tropospheric NO ₂ in rural New Zealand. <i>Geophysical Research Letters</i> , 1984 , 11, 69-72	4.9	27
59	Europe's darker atmosphere in the UV-B. <i>Photochemical and Photobiological Sciences</i> , 2008 , 7, 925-30	4.2	26
58	Moderation of Cloud Reduction of UV in the Antarctic Due to High Surface Albedo. <i>Journal of Applied Meteorology and Climatology</i> , 2003 , 42, 1174-1183		26
57	Success of Montreal Protocol Demonstrated by Comparing High-Quality UV Measurements with "World Avoided" Calculations from Two Chemistry-Climate Models. <i>Scientific Reports</i> , 2019 , 9, 12332	4.9	25
56	Are current guidelines for sun protection optimal for health? Exploring the evidence. <i>Photochemical and Photobiological Sciences</i> , 2018 , 17, 1956-1963	4.2	25
55	Cloud cover measured by satellite and from the ground: Relationship to UV radiation at the surface. <i>International Journal of Remote Sensing</i> , 1998 , 19, 2969-2985	3.1	25
54	Environmental effects of stratospheric ozone depletion, UV radiation and interactions with climate change: UNEP Environmental Effects Assessment Panel, update 2019. <i>Photochemical and Photobiological Sciences</i> , 2020 , 19, 542-584	4.2	24
53	Towards closure between measured and modelled UV under clear skies at four diverse sites. <i>Atmospheric Chemistry and Physics</i> , 2007 , 7, 2817-2837	6.8	24
52	Ozone profile differences between Europe and New Zealand: Effects on surface UV irradiance and its estimation from satellite sensors. <i>Journal of Geophysical Research</i> , 2003 , 108,		24
51	New Ultraviolet Spectroradiometer measurements at Mauna Loa Observatory. <i>Geophysical Research Letters</i> , 1996 , 23, 2121-2124	4.9	24
50	Spectral ultraviolet intensity measurements at 45°S: 1980 and 1988. <i>Journal of Geophysical Research</i> , 1990 , 95, 5597		24
49	Relationship between photolysis frequencies derived from spectroscopic measurements of actinic fluxes and irradiances during the IPMMI campaign. <i>Journal of Geophysical Research</i> , 2002 , 107, ACH 1-1-ACH 1-16		23
48	Environmental effects of ozone depletion and its interactions with climate change: progress report, 2008. <i>Photochemical and Photobiological Sciences</i> , 2009 , 8, 13-22	4.2	22
47	Effects of urban pollution on UV spectral irradiances. <i>Atmospheric Chemistry and Physics</i> , 2008 , 8, 5683-5697	6.7	22
46	Reassessing Impacts of Extended Daily Exposure to Low Level Solar UV Radiation. <i>Scientific Reports</i> , 2018 , 8, 13805	4.9	22
45	UV Spectro-Radiometry in the Network for the Detection of Stratospheric Change (NDSC) 1997 , 279-287		20
44	Sun exposure and 25-hydroxyvitamin D levels in a community sample: Quantifying the association with electronic dosimeters. <i>Journal of Exposure Science and Environmental Epidemiology</i> , 2017 , 27, 471-477	6.7	19
43	Small doses from artificial UV sources elucidate the photo-production of vitamin D. <i>Photochemical and Photobiological Sciences</i> , 2013 , 12, 1726-37	4.2	18

42	Extremely high levels of melanoma in Tauranga, New Zealand: possible causes and comparisons with Australia and the northern hemisphere. <i>Australasian Journal of Dermatology</i> , 2007 , 48, 208-16	1.3	18
41	Attempts to probe the ozone layer and the ultraviolet-B levels of the past. <i>Ambio</i> , 2007 , 36, 366-71	6.5	18
40	Environmental effects of ozone depletion and its interactions with climate change: progress report, 2004. <i>Photochemical and Photobiological Sciences</i> , 2005 , 4, 177-84	4.2	13
39	Using a Parameterization of a Radiative Transfer Model to Build High-Resolution Maps of Typical Clear-Sky UV Index in Catalonia, Spain. <i>Journal of Applied Meteorology and Climatology</i> , 2005 , 44, 789-803		13
38	Multi-wavelength profiles of aerosol backscatter over Lauder, New Zealand, 24 November 1992. <i>Geophysical Research Letters</i> , 1994 , 21, 789-792	4.9	13
37	Clear-sky ultraviolet radiation modelling using output from the Chemistry Climate Model Initiative. <i>Atmospheric Chemistry and Physics</i> , 2019 , 19, 10087-10110	6.8	11
36	Solar Ultraviolet Radiation Exposure of South African Marathon Runners During Competition Marathon Runs and Training Sessions: A Feasibility Study. <i>Photochemistry and Photobiology</i> , 2015 , 91, 971-9	3.6	11
35	Two methods for retrieving UV index for all cloud conditions from sky imager products or total SW radiation measurements. <i>Photochemistry and Photobiology</i> , 2014 , 90, 941-51	3.6	11
34	Stratospheric ozone observations simultaneous with NO ₂ at 45°S. <i>Geophysical Research Letters</i> , 1983 , 10, 337-340	4.9	11
33	Seasonal variation in vitamin D levels in the Canterbury, New Zealand population in relation to available UV radiation. <i>New Zealand Medical Journal</i> , 2007 , 120, U2733	0.8	11
32	Comment on Record solar UV irradiance in the tropical Andes, by Cabrol et al. <i>Frontiers in Environmental Science</i> , 2015 , 3,	4.8	10
31	Ratio spectra as a quality control tool for solar spectral UV measurements. <i>Journal of Geophysical Research</i> , 1998 , 103, 28855-28861		10
30	UV radiation in the melanoma capital of the world: What makes New Zealand so different? 2017 ,		9
29	Spectral UV Measurements of Global Irradiance, Solar Radiance, and Actinic Flux in New Zealand: Intercomparison between Instruments and Model Calculations. <i>Journal of Atmospheric and Oceanic Technology</i> , 2008 , 25, 945-958	2	9
28	Effects of the temperature dependence in PTFE diffusers on observed UV irradiances. <i>Geophysical Research Letters</i> , 2005 , 32,	4.9	9
27	Intensity of solar ultraviolet radiation and its implications for skin cancer. <i>New Zealand Medical Journal</i> , 1990 , 103, 152-4	0.8	9
26	Solar UV radiation and microbial life in the atmosphere. <i>Photochemical and Photobiological Sciences</i> , 2018 , 17, 1918-1931	4.2	9
25	The total ozone anomaly at Lauder, NZ in 1997. <i>Geophysical Research Letters</i> , 1999 , 26, 189-192	4.9	7

24	Use of Electronic UV Dosimeters in Measuring Personal UV Exposures and Public Health Education. <i>Atmosphere</i> , 2020 , 11, 744	2.7	7
23	Peak UV: Spectral contributions from cloud enhancements 2017 ,		5
22	International Intercomparison of Solar UVR Spectral Measurement Systems in Melbourne in 2013. <i>Photochemistry and Photobiology</i> , 2015 , 91, 1237-46	3.6	5
21	Comparison of ultraviolet spectroradiometers in Antarctica. <i>Journal of Geophysical Research</i> , 2008 , 113,		5
20	Ozone Depletion and the Effects of Ultraviolet Radiation 2008 , 503-530		5
19	Factors associated with photoprotection by body clothing coverage, particularly in non-summer months, among a New Zealand community sample. <i>Photochemical and Photobiological Sciences</i> , 2016 , 15, 389-97	4.2	4
18	Radiometer based on the principle of Zeeman modulation designed for the measurement of NO in the atmosphere. <i>Applied Optics</i> , 1988 , 27, 3475-81	1.7	4
17	Environmental effects of stratospheric ozone depletion, UV radiation, and interactions with climate change: UNEP Environmental Effects Assessment Panel, Update 2021.. <i>Photochemical and Photobiological Sciences</i> , 2022 , 21, 275	4.2	4
16	Critical appraisal of data used to infer record UVI in the tropical andes. <i>Photochemical and Photobiological Sciences</i> , 2017 , 16, 785-794	4.2	3
15	Effects of urban pollution on UV spectral irradiances		3
14	Comment on Problems of UV-B radiation measurements in biological research: Critical remarks on current techniques and suggestions for improvements by H. Tj and M. E. M. Baumann. <i>Geophysical Research Letters</i> , 1995 , 22, 1157-1158	4.9	2
13	Intercomparison of NO column measurements during MAP/GLOBUS 1985. <i>Journal of Atmospheric Chemistry</i> , 1988 , 7, 353-367	3.2	2
12	Zeeman modulation contrasted with pressure modulation in its use in measuring atmospheric NO from the ground. <i>Applied Optics</i> , 1988 , 27, 3988-93	1.7	2
11	Balancing the Risks and Benefits of Ultraviolet Radiation 2010 , 21-47		2
10	UV Radiation Monitoring in New Zealand 1994 , 239-246		2
9	Comment on Extreme environments in the forests of Ushuaia, Argentina by Hector D'Antoni et al.. <i>Geophysical Research Letters</i> , 2008 , 35,	4.9	1
8	Measurements of stratospheric columns of nitric oxide made with Zeeman Modulator Radiometer during MAP/GLOBUS 1985. <i>Journal of Geophysical Research</i> , 1988 , 93, 14177		1
7	Towards closure between measured and modelled UV under clear skies at four diverse sites		1

6	Why is it so hard to gain enough Vitamin D by solar exposure in the European winter?. <i>Meteorologische Zeitschrift</i> , 2018 ,	3.1	1
5	Updated analysis of data from Palmer Station, Antarctica (64°S), and San Diego, California (32°N), confirms large effect of the Antarctic ozone hole on UV radiation.. <i>Photochemical and Photobiological Sciences</i> , 2022 , 21, 373	4.2	1
4	Yet another benefit from sunlight in the fight against COVID-19?. <i>British Journal of Dermatology</i> , 2021 , 185, 246-247	4	0
3	Atmospheric science: Institute to continue climate monitoring. <i>Nature</i> , 2012 , 488, 591	50.4	
2	Solar Radiation and Human Health 2013 , 529-564		
1	Southern Hemisphere Nitrogen Dioxide 1985 , 163-167		