

Nathan J Downs

List of Publications by Year in descending order

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Version: 2024-02-01

58
papers

1,052
citations

516710

16
h-index

454955

30
g-index

58
all docs

58
docs citations

58
times ranked

1113
citing authors

#	ARTICLE	IF	CITATIONS
1	Wearable ultraviolet radiation sensors for research and personal use. <i>International Journal of Biometeorology</i> , 2022, 66, 627-640.	3.0	8
2	A Case Study of UV Exposure Risk in Sydney during the 2019/2020 New South Wales Bushfires. <i>Photochemistry and Photobiology</i> , 2022, 98, 1236-1244.	2.5	1
3	Cloud Affected Solar UV Prediction With Three-Phase Wavelet Hybrid Convolutional Long Short-Term Memory Network Multi-Step Forecast System. <i>IEEE Access</i> , 2022, 10, 24704-24720.	4.2	15
4	Forecasting solar photosynthetic photon flux density under cloud cover effects: novel predictive model using convolutional neural network integrated with long short-term memory network. <i>Stochastic Environmental Research and Risk Assessment</i> , 2022, 36, 3183-3220.	4.0	4
5	Evaluation of the Long-term Cumulative UVA Facial Exposure of Queensland School Teachers derived for an Extended Period from the OMI Satellite Irradiance. <i>Photochemistry and Photobiology</i> , 2021, 97, 192-197.	2.5	0
6	Electronic Sun Journal Versus Self-report Sun Diary: A Comparison of Recording Personal Sunlight Exposure Methods. <i>Photochemistry and Photobiology</i> , 2021, 97, 641-649.	2.5	0
7	Satellite Monitoring of Environmental Solar Ultraviolet A (UVA) Exposure and Irradiance: A Review of OMI and GOME-2. <i>Remote Sensing</i> , 2021, 13, 752.	4.0	10
8	Biologically effective solar ultraviolet exposures and the potential skin cancer risk for individual gold medalists of the 2020 Tokyo Summer Olympic Games. <i>Temperature</i> , 2020, 7, 89-108.	3.0	14
9	Influence of clouds on OMI satellite total daily UVA exposure over a 12-year period at a southern hemisphere site. <i>International Journal of Remote Sensing</i> , 2020, 41, 272-283.	2.9	3
10	The Simulated Ocular and Whole-body Distribution of Natural Sunlight to Kiteboarders: A High-Risk Case of UVR Exposure for Athletes Utilizing Water Surfaces in Sport. <i>Photochemistry and Photobiology</i> , 2020, 96, 926-935.	2.5	8
11	Solar Blue Light Radiation Enhancement during Mid to Low Solar Elevation Periods under Cloud Affected Skies. <i>Sensors</i> , 2020, 20, 4105.	3.8	3
12	Keratinocyte skin cancer risks for working school teachers: Scenarios and implications of the timing of scheduled duty periods in Queensland, Australia. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2020, 213, 112046.	3.8	1
13	Measured UV Exposures of Ironman, Sprint and Olympic-Distance Triathlon Competitors. <i>Atmosphere</i> , 2020, 11, 440.	2.3	8
14	Evaluation of shade profiles while walking in urban environments: A case study from inner suburban Sydney, Australia. <i>Building and Environment</i> , 2020, 177, 106873.	6.9	5
15	A site-specific standard for comparing dynamic solar ultraviolet protection characteristics of established tree canopies. <i>MethodsX</i> , 2019, 6, 1683-1693.	1.6	4
16	Comparing the annualised dynamic shade characteristics of twenty-one tree canopies across twenty-six municipalities in a high ambient UV climate, Queensland - Australia. <i>Applied Geography</i> , 2019, 108, 74-82.	3.7	7
17	Global solar radiation prediction by ANN integrated with European Centre for medium range weather forecast fields in solar rich cities of Queensland Australia. <i>Journal of Cleaner Production</i> , 2019, 216, 288-310.	9.3	141
18	Improving SPI-derived drought forecasts incorporating synoptic-scale climate indices in multi-phase multivariate empirical mode decomposition model hybridized with simulated annealing and kernel ridge regression algorithms. <i>Journal of Hydrology</i> , 2019, 576, 164-184.	5.4	71

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19	Cloud segmentation property extraction from total sky image repositories using Python. <i>Instrumentation Science and Technology</i> , 2019, 47, 522-534.	1.8	5
20	A Pilot Observational Study of Environmental Summertime Health Risk Behavior in Central Brisbane, Queensland: Opportunities to Raise Sun Protection Awareness in Australia's Sunshine State. <i>Photochemistry and Photobiology</i> , 2019, 95, 650-655.	2.5	3
21	Development of a model for calculating the solar ultraviolet protection factor of small to medium sized built shade structures. <i>Building and Environment</i> , 2019, 147, 415-421.	6.9	11
22	Seasonal Minimum and Maximum Solar Ultraviolet Exposure Measurements of Classroom Teachers Residing in Tropical North Queensland, Australia. <i>Photochemistry and Photobiology</i> , 2019, 95, 1083-1093.	2.5	3
23	Adaptive Neuro-Fuzzy Inference System integrated with solar zenith angle for forecasting sub-tropical Photosynthetically Active Radiation. <i>Food and Energy Security</i> , 2019, 8, e00151.	4.3	14
24	An ensemble-ANFIS based uncertainty assessment model for forecasting multi-scalar standardized precipitation index. <i>Atmospheric Research</i> , 2018, 207, 155-180.	4.1	70
25	A comprehensive approach to evaluating and classifying sun-protective clothing. <i>British Journal of Dermatology</i> , 2018, 178, 958-964.	1.5	26
26	Cotton yield prediction with Markov Chain Monte Carlo-based simulation model integrated with genetic programming algorithm: A new hybrid copula-driven approach. <i>Agricultural and Forest Meteorology</i> , 2018, 263, 428-448.	4.8	34
27	Multi-stage hybridized online sequential extreme learning machine integrated with Markov Chain Monte Carlo copula-Bat algorithm for rainfall forecasting. <i>Atmospheric Research</i> , 2018, 213, 450-464.	4.1	65
28	Multi-stage committee based extreme learning machine model incorporating the influence of climate parameters and seasonality on drought forecasting. <i>Computers and Electronics in Agriculture</i> , 2018, 152, 149-165.	7.7	58
29	Atmospheric total ozone column evaluation with a smartphone image sensor. <i>International Journal of Remote Sensing</i> , 2018, 39, 2766-2783.	2.9	8
30	Self-adaptive differential evolutionary extreme learning machines for long-term solar radiation prediction with remotely-sensed MODIS satellite and Reanalysis atmospheric products in solar-rich cities. <i>Remote Sensing of Environment</i> , 2018, 212, 176-198.	11.0	72
31	The geospatial relationship of pterygium and senile cataract with ambient solar ultraviolet in tropical Ecuador. <i>Photochemical and Photobiological Sciences</i> , 2018, 17, 1075-1083.	2.9	11
32	Evaluated UVA Irradiances over a Twelve-Year Period at a Subtropical Site from Ozone Monitoring Instrument Data Including the Influence of Cloud. <i>Photochemistry and Photobiology</i> , 2018, 94, 1281-1288.	2.5	6
33	Very short-term reactive forecasting of the solar ultraviolet index using an extreme learning machine integrated with the solar zenith angle. <i>Environmental Research</i> , 2017, 155, 141-166.	7.5	69
34	Comparison of GOME-2 UVA Satellite Data to Ground-Based Spectroradiometer Measurements at a Subtropical Site. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2017, 55, 3145-3149.	6.3	4
35	Concurrent evaluation of personal damaging and beneficial UV exposures over an extended period. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2017, 170, 188-196.	3.8	4
36	Validation of Ozone Monitoring Instrument UV Satellite Data Using Spectral and Broadband Surface Based Measurements at a Queensland Site. <i>Photochemistry and Photobiology</i> , 2017, 93, 1289-1293.	2.5	7

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37	An Inexpensive High-Temporal Resolution Electronic Sun Journal for Monitoring Personal Day to Day Sun Exposure Patterns. <i>Frontiers in Public Health</i> , 2017, 5, 310.	2.7	7
38	Solar ultraviolet and the occupational radiant exposure of Queensland school teachers: A comparative study between teaching classifications and behavior patterns. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2016, 158, 105-112.	3.8	14
39	Minimum Exposure Limits and Measured Relationships Between the Vitamin D, Erythema and International Commission on Non-ionizing Radiation Protection Solar Ultraviolet. <i>Photochemistry and Photobiology</i> , 2015, 91, 438-449.	2.5	5
40	Development of a Reproducible Rating System for Sun Protective Clothing That Incorporates Body Surface Coverage. <i>World Journal of Engineering and Technology</i> , 2015, 03, 208-214.	0.5	9
41	Measurements of occupational ultraviolet exposure and the implications of timetabled yard duty for school teachers in Queensland, Australia: Preliminary results. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2014, 131, 84-89.	3.8	15
42	Seasonal Variations in the Subsurface Ultraviolet on an Inshore Pacific Coral Reef Ecosystem. <i>Photochemistry and Photobiology</i> , 2013, 89, 1234-1243.	2.5	4
43	Alternative methods for the reduction of evaporation: practical exercises for the science classroom. <i>Physics Education</i> , 2012, 47, 202-210.	0.5	2
44	Influence of high levels of cloud cover on vitamin D effective and erythema solar UV irradiances. <i>Photochemical and Photobiological Sciences</i> , 2012, 11, 1855-1859.	2.9	10
45	Mean Exposure Fractions of Human Body Solar UV Exposure Patterns for Application in Different Ambient Climates. <i>Photochemistry and Photobiology</i> , 2012, 88, 223-226.	2.5	21
46	Determination of the Usage of Shade Structures via a Dosimetry Technique. <i>Photochemistry and Photobiology</i> , 2012, 88, 1012-1015.	2.5	5
47	Basal and squamous cell carcinoma risks for golfers: An assessment of the influence of tee time for latitudes in the Northern and Southern hemispheres. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2011, 105, 98-105.	3.8	23
48	Solar ultraviolet radiation incident upon reef snorkelers determined by consideration of the partial immersion of dosimeters in the natural ocean environment. <i>Measurement Science and Technology</i> , 2011, 22, 015801.	2.6	4
49	Chemical films and monolayers on the water surface and their interactions with ultraviolet radiation: a pilot investigation. <i>Measurement Science and Technology</i> , 2011, 22, 065703.	2.6	1
50	Solar UV exposures measured simultaneously to all arbitrarily oriented leaves on a plant. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2010, 99, 87-92.	3.8	9
51	Techniques for Solar Dosimetry in Different Environments. , 2010, , 192-204.		1
52	Ultraviolet exposures in different playground settings: a cohort study of measurements performed in a school population. <i>Photodermatology Photoimmunology and Photomedicine</i> , 2009, 25, 196-201.	1.5	12
53	Measurements of the upper body ultraviolet exposure to golfers: non-melanoma skin cancer risk, and the potential benefits of exposure to sunlight. <i>Photodermatology Photoimmunology and Photomedicine</i> , 2009, 25, 317-324.	1.5	26
54	Measurements of the anatomical distribution of erythema ultraviolet: a study comparing exposure distribution to the site incidence of solar keratoses, basal cell carcinoma and squamous cell carcinoma. <i>Photochemical and Photobiological Sciences</i> , 2009, 8, 1195.	2.9	20

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55	Modelling ultraviolet exposures in a school environment. Photochemical and Photobiological Sciences, 2008, 7, 700-710.	2.9	13
56	Three dimensional visualisation of human facial exposure to solar ultraviolet. Photochemical and Photobiological Sciences, 2007, 6, 90-98.	2.9	20
57	Patterns in the Received Facial UV Exposure of School Children Measured at a Subtropical Latitude. Photochemistry and Photobiology, 2007, 84, 071018085748003-???.	2.5	23
58	Variation of the enhanced biologically damaging solar UV due to clouds. Photochemical and Photobiological Sciences, 2004, 3, 643.	2.9	35