

# 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  | 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       |
| 2  | 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        |
| 3  | 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        |
| 4  | 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        |
| 5  | 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        |
| 6  | 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        |
| 7  | 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        |
| 8  | Variation of the enhanced biologically damaging solar UV due to clouds. <i>Photochemical and Photobiological Sciences</i> , 2004, 3, 643.   | 2.9  | 35        |
| 9  | 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        |
| 10 | 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        |
| 11 | A comprehensive approach to evaluating and classifying sun-protective clothing. <i>British Journal of Dermatology</i> , 2018, 178, 958-964.   | 1.5  | 26        |
| 12 | Patterns in the Received Facial UV Exposure of School Children Measured at a Subtropical Latitude. <i>Photochemistry and Photobiology</i> , 2007, 84, 071018085748003-???   | 2.5  | 23        |
| 13 | 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        |
| 14 | 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        |
| 15 | Three dimensional visualisation of human facial exposure to solar ultraviolet. <i>Photochemical and Photobiological Sciences</i> , 2007, 6, 90-98.  | 2.9  | 20        |
| 16 | Measurements of the anatomical distribution of erythral 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        |
| 17 | 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        |
| 18 | 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        |

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|----|---|-----|-----------|
| 19 | 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        |
| 20 | 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        |
| 21 | 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        |
| 22 | Modelling ultraviolet exposures in a school environment. <i>Photochemical and Photobiological Sciences</i> , 2008, 7, 700-710.  | 2.9 | 13        |
| 23 | 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        |
| 24 | 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        |
| 25 | 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        |
| 26 | 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        |
| 27 | 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        |
| 28 | 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         |
| 29 | 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         |
| 30 | Atmospheric total ozone column evaluation with a smartphone image sensor. <i>International Journal of Remote Sensing</i> , 2018, 39, 2766-2783.   | 2.9 | 8         |
| 31 | 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         |
| 32 | Measured UV Exposures of Ironman, Sprint and Olympic-Distance Triathlon Competitors. <i>Atmosphere</i> , 2020, 11, 440.   | 2.3 | 8         |
| 33 | Wearable ultraviolet radiation sensors for research and personal use. <i>International Journal of Biometeorology</i> , 2022, 66, 627-640.   | 3.0 | 8         |
| 34 | 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         |
| 35 | 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         |
| 36 | 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         |

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|----|---|-----|-----------|
| 37 | 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         |
| 38 | Determination of the Usage of Shade Structures via a Dosimetry Technique. <i>Photochemistry and Photobiology</i> , 2012, 88, 1012-1015.   | 2.5 | 5         |
| 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 | Cloud segmentation property extraction from total sky image repositories using Python. <i>Instrumentation Science and Technology</i> , 2019, 47, 522-534.   | 1.8 | 5         |
| 41 | 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         |
| 42 | 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         |
| 43 | 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         |
| 44 | 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         |
| 45 | 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         |
| 46 | 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         |
| 47 | 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         |
| 48 | 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         |
| 49 | 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         |
| 50 | 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         |
| 51 | 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         |
| 52 | Alternative methods for the reduction of evaporation: practical exercises for the science classroom. <i>Physics Education</i> , 2012, 47, 202-210.  | 0.5 | 2         |
| 53 | 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         |
| 54 | 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         |

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|----|--|-----|-----------|
| 55 | Techniques for Solar Dosimetry in Different Environments. , 2010, , 192-204.   |     | 1         |
| 56 | A Case Study of UV Exposure Risk in Sydney during the 2019/2020 New South Wales Bushfires. Photochemistry and Photobiology, 2022, 98, 1236-1244.   | 2.5 | 1         |
| 57 | Evaluation of the Long-term Cumulative UVA Facial Exposure of Queensland School Teachers derived for an Extended Period from the OMI Satellite Irradiance. Photochemistry and Photobiology, 2021, 97, 192-197. | 2.5 | 0         |
| 58 | Electronic Sun Journal Versus Self-report Sun Diary: A Comparison of Recording Personal Sunlight Exposure Methods. Photochemistry and Photobiology, 2021, 97, 641-649.   | 2.5 | 0         |