

# David Giles

## List of Publications by Year in descending order

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Version: 2024-02-01

49  
papers

4,686  
citations

159585

30  
h-index

214800

47  
g-index

65  
all docs

65  
docs citations

65  
times ranked

3619  
citing authors

#	ARTICLE	IF	CITATIONS
1	Advancements in the Aerosol Robotic Network (AERONET) Version 3 database – automated near-real-time quality control algorithm with improved cloud screening for Sun photometer aerosol optical depth (AOD) measurements. <i>Atmospheric Measurement Techniques</i> , 2019, 12, 169-209.	3.1	707
2	Columnar aerosol optical properties at AERONET sites in central eastern Asia and aerosol transport to the tropical mid-Pacific. <i>Journal of Geophysical Research</i> , 2005, 110, n/a-n/a.	3.3	377
3	Climatological aspects of the optical properties of fine/coarse mode aerosol mixtures. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	325
4	An analysis of AERONET aerosol absorption properties and classifications representative of aerosol source regions. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	311
5	AERONET-OC: A Network for the Validation of Ocean Color Primary Products. <i>Journal of Atmospheric and Oceanic Technology</i> , 2009, 26, 1634-1651.	1.3	306
6	Maritime Aerosol Network as a component of Aerosol Robotic Network. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	258
7	Aeronet's Version 2.0 quality assurance criteria. , 2006, 6408, 134.		179
8	The AERONET Version 3 aerosol retrieval algorithm, associated uncertainties and comparisons to Version 2. <i>Atmospheric Measurement Techniques</i> , 2020, 13, 3375-3411.	3.1	176
9	Maritime aerosol network as a component of AERONET – first results and comparison with global aerosol models and satellite retrievals. <i>Atmospheric Measurement Techniques</i> , 2011, 4, 583-597.	3.1	152
10	Aerosol properties over the Indo-Gangetic Plain: A mesoscale perspective from the TIGERZ experiment. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	144
11	Tropical cirrus cloud contamination in sun photometer data. <i>Atmospheric Environment</i> , 2011, 45, 6724-6731.	4.1	131
12	CALIPSO and AERONET aerosol optical depth comparisons: One size fits none. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 4748-4766.	3.3	130
13	Optical properties of boreal region biomass burning aerosols in central Alaska and seasonal variation of aerosol optical depth at an Arctic coastal site. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	123
14	Spatial and temporal variability of column-integrated aerosol optical properties in the southern Arabian Gulf and United Arab Emirates in summer. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	119
15	Fog- and cloud-induced aerosol modification observed by the Aerosol Robotic Network (AERONET). <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	99
16	A seasonal trend of single scattering albedo in southern African biomass-burning particles: Implications for satellite products and estimates of emissions for the world's largest biomass-burning source. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 6414-6432.	3.3	99
17	Lidar-Radiometer Inversion Code (LIRIC) for the retrieval of vertical aerosol properties from combined lidar/radiometer data: development and distribution in EARLINET. <i>Atmospheric Measurement Techniques</i> , 2016, 9, 1181-1205.	3.1	92
18	An AERONET-based aerosol classification using the Mahalanobis distance. <i>Atmospheric Environment</i> , 2016, 140, 213-233.	4.1	74

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19	An overview of mesoscale aerosol processes, comparisons, and validation studies from DRAGON networks. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 655-671.	4.9	72
20	A network for standardized ocean color validation measurements. <i>Eos</i> , 2006, 87, 293.	0.1	59
21	Ship-based aerosol optical depth measurements in the Atlantic Ocean: Comparison with satellite retrievals and GOCART model. <i>Geophysical Research Letters</i> , 2006, 33, .	4.0	59
22	Observations of rapid aerosol optical depth enhancements in the vicinity of polluted cumulus clouds. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 11633-11656.	4.9	58
23	Cloud optical depth retrievals from the Aerosol Robotic Network (AERONET) cloud mode observations. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	53
24	Latitudinal variation of aerosol properties from Indo-Gangetic Plain to central Himalayan foothills during TIGERZ campaign. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 4750-4769.	3.3	52
25	Observations of the Interaction and Transport of Fine Mode Aerosols With Cloud and/or Fog in Northeast Asia From Aerosol Robotic Network and Satellite Remote Sensing. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 5560-5587.	3.3	49
26	Assessment of error in aerosol optical depth measured by AERONET due to aerosol forward scattering. <i>Geophysical Research Letters</i> , 2012, 39, .	4.0	45
27	AERONET Remotely Sensed Measurements and Retrievals of Biomass Burning Aerosol Optical Properties During the 2015 Indonesian Burning Season. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 4722-4740.	3.3	40
28	Vertical Distribution and Columnar Optical Properties of Springtime Biomass-Burning Aerosols over Northern Indochina during 2014 7-SEAS Campaign. <i>Aerosol and Air Quality Research</i> , 2015, 15, 2037-2050.	2.1	39
29	Intercomparison of aerosol single-scattering albedo derived from AERONET surface radiometers and LARGE in situ aircraft profiles during the 2011 DRAGON-MD and DISCOVER-AQ experiments. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 7439-7452.	3.3	37
30	Evaluation and intercomparison of wildfire smoke forecasts from multiple modeling systems for the 2019 Williams Flats fire. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 14427-14469.	4.9	37
31	Cloud droplet size and liquid water path retrievals from zenith radiance measurements: examples from the Atmospheric Radiation Measurement Program and the Aerosol Robotic Network. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 10313-10329.	4.9	33
32	Advances in the Ocean Color Component of the Aerosol Robotic Network (AERONET-OC). <i>Journal of Atmospheric and Oceanic Technology</i> , 2021, 38, 725-746.	1.3	33
33	AERONET-OC: an overview. <i>Canadian Journal of Remote Sensing</i> , 2010, 36, 488-497.	2.4	32
34	Global validation of columnar water vapor derived from EOS MODIS-MAIAC algorithm against the ground-based AERONET observations. <i>Atmospheric Research</i> , 2019, 225, 181-192.	4.1	32
35	Profiling transboundary aerosols over Taiwan and assessing their radiative effects. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	25
36	Comparison of aerosol optical thickness measurements by MODIS, AERONET sun photometers, and Forest Service handheld sun photometers in southern Africa during the SAFARI 2000 campaign. <i>International Journal of Remote Sensing</i> , 2005, 26, 4169-4183.	2.9	23

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37	Wildfire Smoke Particle Properties and Evolution, From Space-Based Multi-Angle Imaging II: The Williams Flats Fire during the FIREX-AQ Campaign. <i>Remote Sensing</i> , 2020, 12, 3823.	4.0	18
38	AERONET, airborne HSRL, and CALIPSO aerosol retrievals compared and combined: A case study. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	17
39	Assessment of the total precipitable water from a sun photometer, microwave radiometer and radiosondes at a continental site in southeastern Europe. <i>Atmospheric Measurement Techniques</i> , 2019, 12, 1979-1997.	3.1	14
40	Intercomparison of aerosol volume size distributions derived from AERONET ground-based remote sensing and LARGE in situ aircraft profiles during the 2011â€“2014 DRAGON and DISCOVER-AQ experiments. <i>Atmospheric Measurement Techniques</i> , 2019, 12, 5289-5301.	3.1	9
41	Discerning the pre-monsoon urban atmosphere aerosol characteristic and its potential source type remotely sensed by AERONET over the Bengal Gangetic plain. <i>Environmental Science and Pollution Research</i> , 2018, 25, 22163-22179.	5.3	8
42	Validation of satellite and model aerosol optical depth and precipitable water vapour observations with AERONET data over Pune, India. <i>International Journal of Remote Sensing</i> , 2018, 39, 7643-7663.	2.9	6
43	Investigation of the relationship between the fine mode fraction and Å…ngstrÅ™m exponent: Cases in Korea. <i>Atmospheric Research</i> , 2021, 248, 105217.	4.1	4
44	Simultaneous Characterization of Wildfire Smoke and Surface Properties With Imaging Spectroscopy During the FIREXâ€“AQ Field Campaign. <i>Journal of Geophysical Research D: Atmospheres</i> , 2022, 127, .	3.3	4
45	The SMARTâ€™s Trace Gas and Aerosol Inversions: I. Algorithm Theoretical Basis for Column Property Retrievals. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2019JD032088.	3.3	2
46	Augmenting Heritage Ocean-Color Aerosol Models for Enhanced Remote Sensing of Inland and Nearshore Coastal Waters. <i>Frontiers in Remote Sensing</i> , 2022, 3, .	3.5	2
47	The impact of neglecting ice phase on cloud optical depth retrievals from AERONET cloud mode observations. <i>Atmospheric Measurement Techniques</i> , 2019, 12, 5087-5099.	3.1	1
48	Solar radiometer sensing of multi-year aerosol features over a tropical urban station: direct-Sun and inversion products. <i>Atmospheric Measurement Techniques</i> , 2020, 13, 5569-5593.	3.1	1
49	Current and Future Perspectives of Aerosol Research at NASA Goddard Space Flight Center. <i>Bulletin of the American Meteorological Society</i> , 2014, 95, ES203-ES207.	3.3	0