

# James R Campbell

## List of Publications by Year in descending order

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106  
papers

5,681  
citations

81839

39  
h-index

88593

70  
g-index

122  
all docs

122  
docs citations

122  
times ranked

4924  
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.	1.2	707
2	Full-Time, Eye-Safe Cloud and Aerosol Lidar Observation at Atmospheric Radiation Measurement Program Sites: Instruments and Data Processing. <i>Journal of Atmospheric and Oceanic Technology</i> , 2002, 19, 431-442.	0.5	316
3	Observing and understanding the Southeast Asian aerosol system by remote sensing: An initial review and analysis for the Seven Southeast Asian Studies (7SEAS) program. <i>Atmospheric Research</i> , 2013, 122, 403-468.	1.8	269
4	Clouds at Arctic Atmospheric Observatories. Part I: Occurrence and Macrophysical Properties. <i>Journal of Applied Meteorology and Climatology</i> , 2011, 50, 626-644.	0.6	206
5	Global monitoring of clouds and aerosols using a network of micropulse lidar systems. , 2001, 4153, 151.		202
6	Clouds at Arctic Atmospheric Observatories. Part II: Thermodynamic Phase Characteristics. <i>Journal of Applied Meteorology and Climatology</i> , 2011, 50, 645-661.	0.6	194
7	Using the OMI aerosol index and absorption aerosol optical depth to evaluate the NASA MERRA Aerosol Reanalysis. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 5743-5760.	1.9	184
8	Measurements of aerosol vertical profiles and optical properties during INDOEX 1999 using micropulse lidars. <i>Journal of Geophysical Research</i> , 2002, 107, INX2 18-1.	3.3	166
9	A Midlatitude Cirrus Cloud Climatology from the Facility for Atmospheric Remote Sensing. Part I: Macrophysical and Synoptic Properties. <i>Journals of the Atmospheric Sciences</i> , 2001, 58, 481-496.	0.6	160
10	Wildfire-driven thunderstorms cause a volcano-like stratospheric injection of smoke. <i>Npj Climate and Atmospheric Science</i> , 2018, 1, .	2.6	152
11	An 11-year global gridded aerosol optical thickness reanalysis (v1.0) for atmospheric and climate sciences. <i>Geoscientific Model Development</i> , 2016, 9, 1489-1522.	1.3	149
12	Analysis of measurements of Saharan dust by airborne and ground-based remote sensing methods during the Puerto Rico Dust Experiment (PRIDE). <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	145
13	Tropical cirrus cloud contamination in sun photometer data. <i>Atmospheric Environment</i> , 2011, 45, 6724-6731.	1.9	131
14	Micropulse Lidar Signals: Uncertainty Analysis. <i>Journal of Atmospheric and Oceanic Technology</i> , 2002, 19, 2089-2094.	0.5	121
15	Coordinated airborne, spaceborne, and ground-based measurements of massive thick aerosol layers during the dry season in southern Africa. <i>Journal of Geophysical Research</i> , 2003, 108, n/a-n/a.	3.3	96
16	The 2013 Rim Fire: Implications for Predicting Extreme Fire Spread, Pyroconvection, and Smoke Emissions. <i>Bulletin of the American Meteorological Society</i> , 2015, 96, 229-247.	1.7	95
17	Characterizing the vertical profile of aerosol particle extinction and linear depolarization over Southeast Asia and the Maritime Continent: The 2007–2009 view from CALIOP. <i>Atmospheric Research</i> , 2013, 122, 520-543.	1.8	79
18	Australia's Black Summer pyrocumulonimbus super outbreak reveals potential for increasingly extreme stratospheric smoke events. <i>Npj Climate and Atmospheric Science</i> , 2021, 4, .	2.6	78

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19	A Conceptual Model for Development of Intense Pyrocumulonimbus in Western North America. <i>Monthly Weather Review</i> , 2017, 145, 2235-2255.	0.5	76
20	Evaluating the impact of assimilating CALIOP-derived aerosol extinction profiles on a global mass transport model. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	1.5	70
21	Micropulse lidar observations of tropospheric aerosols over northeastern South Africa during the ARREX and SAFARI 2000 dry season experiments. <i>Journal of Geophysical Research</i> , 2003, 108, n/a-n/a.	3.3	65
22	Airborne lidar measurements of aerosol optical properties during SAFARI-2000. <i>Journal of Geophysical Research</i> , 2003, 108, n/a-n/a.	3.3	64
23	Impact of data quality and surface-to-column representativeness on the PM <sub>2.5</sub> / satellite AOD relationship for the contiguous United States. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 6049-6062.	1.9	60
24	ARM Southern Great Plains Site Observations of the Smoke Pall Associated with the 1998 Central American Fires. <i>Bulletin of the American Meteorological Society</i> , 2000, 81, 2563-2591.	1.7	59
25	A Simplified and Robust Surface Reflectance Estimation Method (SREM) for Use over Diverse Land Surfaces Using Multi-Sensor Data. <i>Remote Sensing</i> , 2019, 11, 1344.	1.8	58
26	Evaluating nighttime CALIOP 0.532 $\mu$ m aerosol optical depth and extinction coefficient retrievals. <i>Atmospheric Measurement Techniques</i> , 2012, 5, 2143-2160.	1.2	56
27	Investigating enhanced Aqua MODIS aerosol optical depth retrievals over the mid-to-high latitude Southern Oceans through intercomparison with co-located CALIOP, MAN, and AERONET data sets. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 4700-4714.	1.2	56
28	Correcting the record of volcanic stratospheric aerosol impact: Nabro and Sarychev Peak. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 10,343.	1.2	56
29	Observations of blowing snow at the South Pole. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	55
30	Physical and optical characteristics of the October 2010 haze event over Singapore: A photometric and lidar analysis. <i>Atmospheric Research</i> , 2013, 122, 555-570.	1.8	55
31	Daytime Cirrus Cloud Top-of-the-Atmosphere Radiative Forcing Properties at a Midlatitude Site and Their Global Consequences. <i>Journal of Applied Meteorology and Climatology</i> , 2016, 55, 1667-1679.	0.6	55
32	Evaluating the impact of multisensor data assimilation on a global aerosol particle transport model. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 4674-4689.	1.2	53
33	CloudSat spaceborne 94 GHz radar bright bands in the melting layer: An attenuation-driven upside-down lidar analog. <i>Geophysical Research Letters</i> , 2007, 34, .	1.5	51
34	Distinguishing cirrus cloud presence in autonomous lidar measurements. <i>Atmospheric Measurement Techniques</i> , 2015, 8, 435-449.	1.2	47
35	A New MODIS C6 Dark Target and Deep Blue Merged Aerosol Product on a 3 km Spatial Grid. <i>Remote Sensing</i> , 2018, 10, 463.	1.8	47
36	Elevated Cloud and Aerosol Layer Retrievals from Micropulse Lidar Signal Profiles. <i>Journal of Atmospheric and Oceanic Technology</i> , 2008, 25, 685-700.	0.5	45

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37	Daytime Top-of-the-Atmosphere Cirrus Cloud Radiative Forcing Properties at Singapore. <i>Journal of Applied Meteorology and Climatology</i> , 2017, 56, 1249-1257.	0.6	45
38	Overview of MPLNET Version 3 Cloud Detection. <i>Journal of Atmospheric and Oceanic Technology</i> , 2016, 33, 2113-2134.	0.5	44
39	Airborne Sun photometer measurements of aerosol optical depth and columnar water vapor during the Puerto Rico Dust Experiment and comparison with land, aircraft, and satellite measurements. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	43
40	Minimum aerosol layer detection sensitivities and their subsequent impacts on aerosol optical thickness retrievals in CALIPSO level 2 data products. <i>Atmospheric Measurement Techniques</i> , 2018, 11, 499-514.	1.2	40
41	Evaluating Light Rain Drop Size Estimates from Multiwavelength Micropulse Lidar Network Profiling. <i>Journal of Atmospheric and Oceanic Technology</i> , 2013, 30, 2798-2807.	0.5	39
42	Observations of the temporal variability in aerosol properties and their relationships to meteorology in the summer monsoonal South China Sea/East Sea: the scale-dependent role of monsoonal flows, the Madden-Julian Oscillation, tropical cyclones, squall lines and cold pools. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 1745-1768.	1.9	39
43	Evaluation of Terra-MODIS C6 and C6.1 Aerosol Products against Beijing, XiangHe, and Xinglong AERONET Sites in China during 2004-2014. <i>Remote Sensing</i> , 2019, 11, 486.	1.8	39
44	Lidar and Triple-Wavelength Doppler Radar Measurements of the Melting Layer: A Revised Model for Dark- and Brightband Phenomena. <i>Journal of Applied Meteorology and Climatology</i> , 2005, 44, 301-312.	1.7	38
45	Aerosol meteorology of Maritime Continent for the 2012 7SEAS southwest monsoon intensive study – Part 2: Philippine receptor observations of fine-scale aerosol behavior. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 14057-14078.	1.9	38
46	Aerosol particle vertical distributions and optical properties over Singapore. <i>Atmospheric Environment</i> , 2013, 79, 599-613.	1.9	35
47	Impact of varying lidar measurement and data processing techniques in evaluating cirrus cloud and aerosol direct radiative effects. <i>Atmospheric Measurement Techniques</i> , 2018, 11, 1639-1651.	1.2	34
48	Applying Advanced Ground-Based Remote Sensing in the Southeast Asian Maritime Continent to Characterize Regional Proficiencies in Smoke Transport Modeling. <i>Journal of Applied Meteorology and Climatology</i> , 2016, 55, 3-22.	0.6	31
49	Attributing Accelerated Summertime Warming in the Southeast United States to Recent Reductions in Aerosol Burden: Indications from Vertically-Resolved Observations. <i>Remote Sensing</i> , 2017, 9, 674.	1.8	31
50	CALIOP Aerosol Subset Processing for Global Aerosol Transport Model Data Assimilation. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2010, 3, 203-214.	2.3	30
51	Relationship between Aerosol Optical Depth and Particulate Matter over Singapore: Effects of Aerosol Vertical Distributions. <i>Aerosol and Air Quality Research</i> , 2016, 16, 2818-2830.	0.9	30
52	Aerosol meteorology of the Maritime Continent for the 2012 7SEAS southwest monsoon intensive study – Part 1: regional-scale phenomena. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 14041-14056.	1.9	28
53	A multi-scale hybrid neural network retrieval model for dust storm detection, a study in Asia. <i>Atmospheric Research</i> , 2015, 158-159, 89-106.	1.8	27
54	Vertically Resolved Precipitation Intensity Retrieved through a Synergy between the Ground-Based NASA MPLNET Lidar Network Measurements, Surface Disdrometer Datasets and an Analytical Model Solution. <i>Remote Sensing</i> , 2018, 10, 1102.	1.8	27

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55	Detection and Inventory of Intense Pyroconvection in Western North America using GOES-15 Daytime Infrared Data. <i>Journal of Applied Meteorology and Climatology</i> , 2017, 56, 471-493.	0.6	26
56	Midlatitude cirrus cloud radiative forcing over China. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	25
57	Temporal variability of aerosol optical thickness vertical distribution observed from CALIOP. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 9117-9139.	1.2	25
58	Unusually Deep Wintertime Cirrus Clouds Observed over the Alaskan Subarctic. <i>Bulletin of the American Meteorological Society</i> , 2018, 99, 27-32.	1.7	23
59	Evaluating the impact of aerosol particles above cloud on cloud optical depth retrievals from MODIS. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 5410-5423.	1.2	22
60	Investigating the frequency and interannual variability in global above-cloud aerosol characteristics with CALIOP and OMI. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 47-69.	1.9	22
61	Contrasting cloud composition between coupled and decoupled marine boundary layer clouds. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 11,679.	1.2	21
62	Disproving the BodÃ© Depression as the Primary Source of Dust Fertilizing the Amazon Rainforest. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL088020.	1.5	21
63	Overview of the New Version 3 NASA Micro-Pulse Lidar Network (MPLNET) Automatic Precipitation Detection Algorithm. <i>Remote Sensing</i> , 2020, 12, 71.	1.8	19
64	A global analysis of diurnal variability in dust and dust mixture using CATS observations. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 1427-1447.	1.9	19
65	Multi-year measurements of cloud base heights at South Pole by lidar. <i>Geophysical Research Letters</i> , 2005, 32, .	1.5	18
66	Polar stratospheric clouds at the South Pole from 5 years of continuous lidar data: Macrophysical, optical, and thermodynamic properties. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	18
67	Evaluations of cirrus contamination and screening in ground aerosol observations using collocated lidar systems. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	18
68	Sensitivity of infrared sea surface temperature retrievals to the vertical distribution of airborne dust aerosol. <i>Remote Sensing of Environment</i> , 2015, 159, 1-13.	4.6	18
69	Status of the NASA Micro Pulse Lidar Network (MPLNET): overview of the network and future plans, new version 3 data products, and the polarized MPL. <i>EPJ Web of Conferences</i> , 2018, 176, 09003.	0.1	17
70	Retrieval of dust storm aerosols using an integrated Neural Network model. <i>Computers and Geosciences</i> , 2015, 85, 104-114.	2.0	16
71	Continuous ground-based aerosol Lidar observation during seasonal pollution events at Wuxi, China. <i>Atmospheric Environment</i> , 2017, 154, 189-199.	1.9	16
72	WRF-Chem simulation of aerosol seasonal variability in the San Joaquin Valley. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 7291-7309.	1.9	15

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73	Glaciation of a mixed-phase boundary layer cloud at a coastal arctic site as depicted in continuous lidar measurements. <i>Polar Science</i> , 2008, 2, 121-127.	0.5	14
74	Cirrus cloud macrophysical and optical properties over North China from CALIOP measurements. <i>Advances in Atmospheric Sciences</i> , 2011, 28, 653-664.	1.9	14
75	Likely seeding of cirrus clouds by stratospheric Kasatochi volcanic aerosol particles near a mid-latitude tropopause fold. <i>Atmospheric Environment</i> , 2012, 46, 441-448.	1.9	14
76	Technical note: Fuâ€“Liouâ€“Gu and Cortiâ€“Peter model performance evaluation for radiative retrievals from cirrus clouds. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 7025-7034.	1.9	14
77	Supporting Weather Forecasters in Predicting and Monitoring Saharan Air Layer Dust Events as They Impact the Greater Caribbean. <i>Bulletin of the American Meteorological Society</i> , 2018, 99, 259-268.	1.7	14
78	Determining cloud thermodynamic phase from the polarized Micro Pulse Lidar. <i>Atmospheric Measurement Techniques</i> , 2020, 13, 6901-6913.	1.2	14
79	Estimating Infrared Radiometric Satellite Sea Surface Temperature Retrieval Cold Biases in the Tropics due to Unscreened Optically Thin Cirrus Clouds. <i>Journal of Atmospheric and Oceanic Technology</i> , 2017, 34, 355-373.	0.5	13
80	Cirrus Cloud Top-of-the-Atmosphere Net Daytime Forcing in the Alaskan Subarctic from Ground-Based MPLNET Monitoring. <i>Journal of Applied Meteorology and Climatology</i> , 2021, 60, 51-63.	0.6	13
81	Impact of Asian dust and continental pollutants on cloud chemistry observed in northern Taiwan during the experimental period of ABC/EAREX 2005. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	10
82	Development of an Ozone Monitoring Instrument (OMI) aerosol index (AI) data assimilation scheme for aerosol modeling over bright surfaces â€“ a step toward direct radiance assimilation in the UV spectrum. <i>Geoscientific Model Development</i> , 2021, 14, 27-42.	1.3	10
83	Meteorological Influences on Tropospheric Ozone over Suburban Washington, DC. <i>Aerosol and Air Quality Research</i> , 2018, 18, 1168-1182.	0.9	9
84	Estimating surface visibility at Hong Kong from ground-based LIDAR, sun photometer and operational MODIS products. <i>Journal of the Air and Waste Management Association</i> , 2013, 63, 1098-1110.	0.9	8
85	A global record of single-layered ice cloud properties and associated radiative heating rate profiles from an A-Train perspective. <i>Climate Dynamics</i> , 2019, 53, 3069-3088.	1.7	7
86	Aerosol Direct Radiative Effects under Cloud-Free Conditions over Highly-Polluted Areas in Europe and Mediterranean: A Ten-Years Analysis (2007â€“2016). <i>Remote Sensing</i> , 2021, 13, 2933.	1.8	7
87	Assessment of MODIS, OMI, MISR and CALIOP Aerosol Products for Estimating Surface Visual Range: A Mathematical Model for Hong Kong. <i>Remote Sensing</i> , 2018, 10, 1333.	1.8	5
88	Quantifying the direct radiative effect of absorbing aerosols for numerical weather prediction: a case study. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 205-218.	1.9	5
89	Sensitivities in Satellite Lidarâ€“Derived Estimates of Daytime Topâ€“ofâ€“theâ€“Atmosphere Optically Thin Cirrus Cloud Radiative Forcing: A Case Study. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL088871.	1.5	5
90	Conceptualizing How Severe Haze Events Are Impacting Long-Term Satellite-Based Trend Studies of Aerosol Optical Thickness over Asia. <i>Springer Remote Sensing/photogrammetry</i> , 2018, , 425-445.	0.4	4

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91	Lidar Ratio Derived for Pure Dust Aerosols: Multi-Year Micro Pulse Lidar Observations in a Saharan Dust-Influenced Region. EPJ Web of Conferences, 2016, 119, 23017.	0.1	3
92	Characterizing the Impact of Aerosols on Pre-Hurricane Sandy. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2018, 11, 1378-1386.	2.3	3
93	Conceptualizing the Impact of Dust-Contaminated Infrared Radiances on Data Assimilation for Numerical Weather Prediction. Journal of Atmospheric and Oceanic Technology, 2021, 38, 209-221.	0.5	3
94	High Spectral Resolution Lidar and MPLNET Micro Pulse Lidar aerosol optical property retrieval intercomparison during the 2012 7-SEAS field campaign at Singapore. , 2014, , .		2
95	Advancing Maritime Transparent Cirrus Detection Using the Advanced Baseline Imager "Cirrus" Band. Journal of Atmospheric and Oceanic Technology, 2021, , .	0.5	2
96	Retrieving particulate matter concentrations over the contiguous United States using CALIOP observations. Atmospheric Environment, 2022, 274, 118979.	1.9	2
97	Continuous Lidar Monitoring of Polar Stratospheric Clouds at the South Pole. Bulletin of the American Meteorological Society, 2009, 90, 613-618.	1.7	1
98	Fully Automated Light Precipitation Detection from MPLNET and EARLINET Network Lidar Measurements. EPJ Web of Conferences, 2020, 237, 05006.	0.1	1
99	Understanding Seasonal Variability in thin Cirrus Clouds from Continuous MPLNET Observations at GSFC in 2012. EPJ Web of Conferences, 2016, 119, 11004.	0.1	0
100	MPLNET V3 Cloud and Planetary Boundary Layer Detection. EPJ Web of Conferences, 2016, 119, 16011.	0.1	0
101	Editorial for Special Issue "High Resolution Active Optical Remote Sensing Observations of Aerosols, Clouds and Aerosol-Cloud Interactions and Their Implication to Climate". Remote Sensing, 2020, 12, 2166.	1.8	0
102	The NASA Micro Pulse Lidar Network (MPLNET): Early Results from Development of Diurnal Climatologies. , 2021, , .		0
103	Solving Global Cirrus Cloud Top-of-the-Atmosphere Radiative Forcing from Satellite Lidar. , 2021, , .		0
104	Preface to Special Issue - Aerosol Impact on Physical, Chemical and Biological Processes in Southeast Asia and the Maritime Continent. Aerosol and Air Quality Research, 2016, 16, I-II.	0.9	0
105	Climatological assessment of maritime atmospheric profiles: model-based and LIDAR-based approaches. , 2017, , .		0
106	Assessment of cirrus cloud and aerosol radiative effect in South-East Asia by ground-based NASA MPLNET lidar network data and CALIPSO satellite measurements. , 2017, , .		0