

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	Retrieving particulate matter concentrations over the contiguous United States using CALIOP observations. <i>Atmospheric Environment</i> , 2022, 274, 118979.	1.9	2
2	Development of an Ozone Monitoring Instrument (OMI) aerosol index (AI) data assimilation scheme for aerosol modeling over bright surfaces – a step toward direct radiance assimilation in the UV spectrum. <i>Geoscientific Model Development</i> , 2021, 14, 27-42.	1.3	10
3	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
4	Conceptualizing the Impact of Dust-Contaminated Infrared Radiances on Data Assimilation for Numerical Weather Prediction. <i>Journal of Atmospheric and Oceanic Technology</i> , 2021, 38, 209-221.	0.5	3
5	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
6	Advancing Maritime Transparent Cirrus Detection Using the Advanced Baseline Imager –Cirrus–Band. <i>Journal of Atmospheric and Oceanic Technology</i> , 2021, , .	0.5	2
7	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
8	Aerosol Direct Radiative Effects under Cloud-Free Conditions over Highly-Polluted Areas in Europe and Mediterranean: A Ten-Years Analysis (2007–2016). <i>Remote Sensing</i> , 2021, 13, 2933.	1.8	7
9	The NASA Micro Pulse Lidar Network (MPLNET): Early Results from Development of Diurnal Climatologies. , 2021, , .		0
10	Solving Global Cirrus Cloud Top-of-the-Atmosphere Radiative Forcing from Satellite Lidar. , 2021, , .		0
11	Sensitivities in Satellite Lidar–Derived Estimates of Daytime Top–of–the–Atmosphere Optically Thin Cirrus Cloud Radiative Forcing: A Case Study. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL088871.	1.5	5
12	Disproving the Bod–of–the–Depression as the Primary Source of Dust Fertilizing the Amazon Rainforest. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL088020.	1.5	21
13	Editorial for Special Issue –High Resolution Active Optical Remote Sensing Observations of Aerosols, Clouds and Aerosol–Cloud Interactions and Their Implication to Climate–. <i>Remote Sensing</i> , 2020, 12, 2166.	1.8	0
14	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
15	Determining cloud thermodynamic phase from the polarized Micro Pulse Lidar. <i>Atmospheric Measurement Techniques</i> , 2020, 13, 6901-6913.	1.2	14
16	Fully Automated Light Precipitation Detection from MPLNET and EARLINET Network Lidar Measurements. <i>EPJ Web of Conferences</i> , 2020, 237, 05006.	0.1	1
17	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
18	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

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19	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
20	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
21	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
22	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
23	Characterizing the Impact of Aerosols on Pre-Hurricane Sandy. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2018, 11, 1378-1386.	2.3	3
24	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
25	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
26	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>EPI Web of Conferences</i> , 2018, 176, 09003.	0.1	17
27	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
28	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
29	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
30	Wildfire-driven thunderstorms cause a volcano-like stratospheric injection of smoke. <i>Npj Climate and Atmospheric Science</i> , 2018, 1, .	2.6	152
31	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
32	Meteorological Influences on Tropospheric Ozone over Suburban Washington, DC. <i>Aerosol and Air Quality Research</i> , 2018, 18, 1168-1182.	0.9	9
33	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
34	A Conceptual Model for Development of Intense Pyrocumulonimbus in Western North America. <i>Monthly Weather Review</i> , 2017, 145, 2235-2255.	0.5	76
35	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
36	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

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37	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
38	Continuous ground-based aerosol Lidar observation during seasonal pollution events at Wuxi, China. <i>Atmospheric Environment</i> , 2017, 154, 189-199.	1.9	16
39	Technical note: Fu's Liou's Gu and Corti's Peter model performance evaluation for radiative retrievals from cirrus clouds. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 7025-7034.	1.9	14
40	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
41	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
42	Climatological assessment of maritime atmospheric profiles: model-based and LIDAR-based approaches. , 2017, , .		0
43	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
44	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
45	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
46	Lidar Ratio Derived for Pure Dust Aerosols: Multi-Year Micro Pulse Lidar Observations in a Saharan Dust-Influenced Region. <i>EPJ Web of Conferences</i> , 2016, 119, 23017.	0.1	3
47	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
48	Understanding Seasonal Variability in thin Cirrus Clouds from Continuous MPLNET Observations at GSFC in 2012. <i>EPJ Web of Conferences</i> , 2016, 119, 11004.	0.1	0
49	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
50	Overview of MPLNET Version 3 Cloud Detection. <i>Journal of Atmospheric and Oceanic Technology</i> , 2016, 33, 2113-2134.	0.5	44
51	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
52	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
53	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
54	MPLNET V3 Cloud and Planetary Boundary Layer Detection. <i>EPJ Web of Conferences</i> , 2016, 119, 16011.	0.1	0

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55	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
56	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
57	Preface to Special Issue - Aerosol Impact on Physical, Chemical and Biological Processes in Southeast Asia and the Maritime Continent. <i>Aerosol and Air Quality Research</i> , 2016, 16, I-II.	0.9	0
58	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
59	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
60	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
61	Distinguishing cirrus cloud presence in autonomous lidar measurements. <i>Atmospheric Measurement Techniques</i> , 2015, 8, 435-449.	1.2	47
62	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
63	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
64	Retrieval of dust storm aerosols using an integrated Neural Network model. <i>Computers and Geosciences</i> , 2015, 85, 104-114.	2.0	16
65	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
66	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
67	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
68	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
69	Impact of data quality and surface-to-column representativeness on the $PM_{2.5} / \text{satellite AOD}$ relationship for the contiguous United States. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 6049-6062.	1.9	60
70	Aerosol particle vertical distributions and optical properties over Singapore. <i>Atmospheric Environment</i> , 2013, 79, 599-613.	1.9	35
71	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
72	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

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73	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
74	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
75	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
76	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
77	Evaluating nighttime CALIOP 0.532 μ m aerosol optical depth and extinction coefficient retrievals. <i>Atmospheric Measurement Techniques</i> , 2012, 5, 2143-2160.	1.2	56
78	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
79	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
80	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
81	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
82	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
83	Tropical cirrus cloud contamination in sun photometer data. <i>Atmospheric Environment</i> , 2011, 45, 6724-6731.	1.9	131
84	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
85	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
86	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
87	Midlatitude cirrus cloud radiative forcing over China. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	25
88	Continuous Lidar Monitoring of Polar Stratospheric Clouds at the South Pole. <i>Bulletin of the American Meteorological Society</i> , 2009, 90, 613-618.	1.7	1
89	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
90	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

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91	Elevated Cloud and Aerosol Layer Retrievals from Micropulse Lidar Signal Profiles. Journal of Atmospheric and Oceanic Technology, 2008, 25, 685-700.	0.5	45
92	CloudSat spaceborne 94 GHz radar bright bands in the melting layer: An attenuation-driven upside-down lidar analog. Geophysical Research Letters, 2007, 34, .	1.5	51
93	Lidar and Triple-Wavelength Doppler Radar Measurements of the Melting Layer: A Revised Model for Dark- and Brightband Phenomena. Journal of Applied Meteorology and Climatology, 2005, 44, 301-312.	1.7	38
94	Multi-year measurements of cloud base heights at South Pole by lidar. Geophysical Research Letters, 2005, 32, .	1.5	18
95	Coordinated airborne, spaceborne, and ground-based measurements of massive thick aerosol layers during the dry season in southern Africa. Journal of Geophysical Research, 2003, 108, n/a-n/a.	3.3	96
96	Airborne lidar measurements of aerosol optical properties during SAFARI-2000. Journal of Geophysical Research, 2003, 108, n/a-n/a.	3.3	64
97	Analysis of measurements of Saharan dust by airborne and ground-based remote sensing methods during the Puerto Rico Dust Experiment (PRIDE). Journal of Geophysical Research, 2003, 108, .	3.3	145
98	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. Journal of Geophysical Research, 2003, 108, .	3.3	43
99	Micropulse lidar observations of tropospheric aerosols over northeastern South Africa during the ARREX and SAFARI 2000 dry season experiments. Journal of Geophysical Research, 2003, 108, n/a-n/a.	3.3	65
100	Observations of blowing snow at the South Pole. Journal of Geophysical Research, 2003, 108, .	3.3	55
101	Full-Time, Eye-Safe Cloud and Aerosol Lidar Observation at Atmospheric Radiation Measurement Program Sites: Instruments and Data Processing. Journal of Atmospheric and Oceanic Technology, 2002, 19, 431-442.	0.5	316
102	Micropulse Lidar Signals: Uncertainty Analysis. Journal of Atmospheric and Oceanic Technology, 2002, 19, 2089-2094.	0.5	121
103	Measurements of aerosol vertical profiles and optical properties during INDOEX 1999 using micropulse lidars. Journal of Geophysical Research, 2002, 107, INX2 18-1.	3.3	166
104	A Midlatitude Cirrus Cloud Climatology from the Facility for Atmospheric Remote Sensing. Part I: Macrophysical and Synoptic Properties. Journals of the Atmospheric Sciences, 2001, 58, 481-496.	0.6	160
105	Global monitoring of clouds and aerosols using a network of micropulse lidar systems. , 2001, 4153, 151.		202
106	ARM Southern Great Plains Site Observations of the Smoke Pall Associated with the 1998 Central American Fires. Bulletin of the American Meteorological Society, 2000, 81, 2563-2591.	1.7	59