

Jianglong Zhang

List of Publications by Citations

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49
papers

2,426
citations

28
h-index

49
g-index

74
ext. papers

2,745
ext. citations

5.4
avg, IF

4.89
L-index

#	Paper	IF	Citations
49	Global Monitoring and Forecasting of Biomass-Burning Smoke: Description of and Lessons From the Fire Locating and Modeling of Burning Emissions (FLAMBE) Program. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2009 , 2, 144-162	4.7	242
48	MODIS aerosol product analysis for data assimilation: Assessment of over-ocean level 2 aerosol optical thickness retrievals. <i>Journal of Geophysical Research</i> , 2006 , 111,		227
47	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	5.4	207
46	A system for operational aerosol optical depth data assimilation over global oceans. <i>Journal of Geophysical Research</i> , 2008 , 113,		177
45	An analysis of potential cloud artifacts in MODIS over ocean aerosol optical thickness products. <i>Geophysical Research Letters</i> , 2005 , 32,	4.9	169
44	Longwave radiative forcing of Saharan dust aerosols estimated from MODIS, MISR, and CERES observations on Terra. <i>Geophysical Research Letters</i> , 2003 , 30, n/a-n/a	4.9	102
43	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	6.3	99
42	Shortwave Aerosol Radiative Forcing from MODIS and CERES observations over the oceans. <i>Geophysical Research Letters</i> , 2002 , 29, 6-1-6-4	4.9	75
41	Critical evaluation of the MODIS Deep Blue aerosol optical depth product for data assimilation over North Africa. <i>Atmospheric Measurement Techniques</i> , 2013 , 6, 949-969	4	71
40	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	5.4	64
39	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	4.9	61
38	An analysis of clear sky and contextual biases using an operational over ocean MODIS aerosol product. <i>Geophysical Research Letters</i> , 2009 , 36, n/a-n/a	4.9	53
37	Has China been exporting less particulate air pollution over the past decade?. <i>Geophysical Research Letters</i> , 2017 , 44, 2941-2948	4.9	51
36	Impact of data quality and surface-to-column representativeness on the PM _{2.5} / satellite AOD relationship for the contiguous United States. <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 6049-6062	6.8	50
35	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	4.4	47
34	Shortwave aerosol radiative forcing over cloud-free oceans from Terra: 2. Seasonal and global distributions. <i>Journal of Geophysical Research</i> , 2005 , 110,		47
33	Critical evaluation of cloud contamination in the MISR aerosol products using MODIS cloud mask products. <i>Atmospheric Measurement Techniques</i> , 2014 , 7, 1791-1801	4	46

32	Preliminary investigations toward nighttime aerosol optical depth retrievals from the VIIRS Day/Night Band. <i>Atmospheric Measurement Techniques</i> , 2013 , 6, 1245-1255	4	43
31	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	4.4	41
30	Intercomparison of smoke aerosol optical thickness derived from GOES 8 imager and ground-based Sun photometers. <i>Journal of Geophysical Research</i> , 2001 , 106, 7387-7397		41
29	An integrated analysis of aerosol above clouds from A-Train multi-sensor measurements. <i>Remote Sensing of Environment</i> , 2012 , 121, 125-131	13.2	39
28	Development of the Ensemble Navy Aerosol Analysis Prediction System (ENAAPS) and its application of the Data Assimilation Research Testbed (DART) in support of aerosol forecasting. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 3927-3951	6.8	38
27	Current state of the global operational aerosol multi-model ensemble: An update from the International Cooperative for Aerosol Prediction (ICAP). <i>Quarterly Journal of the Royal Meteorological Society</i> , 2019 , 145, 176-209	6.4	35
26	Characterizing the 2015 Indonesia fire event using modified MODIS aerosol retrievals. <i>Atmospheric Chemistry and Physics</i> , 2019 , 19, 259-274	6.8	29
25	Assimilation of AERONET and MODIS AOT observations using variational and ensemble data assimilation methods and its impact on aerosol forecasting skill. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017 , 122, 4967-4992	4.4	29
24	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	4.7	29
23	Daytime Variation of Shortwave Direct Radiative Forcing of Biomass Burning Aerosols from GOES-8 Imager. <i>Journals of the Atmospheric Sciences</i> , 2002 , 59, 681-691	2.1	29
22	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	4	29
21	Ground-based High Spectral Resolution Lidar observation of aerosol vertical distribution in the summertime Southeast United States. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017 , 122, 2970-3004	4.4	25
20	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	6.8	24
19	A study of 15-year aerosol optical thickness and direct shortwave aerosol radiative effect trends using MODIS, MISR, CALIOP and CERES. <i>Atmospheric Chemistry and Physics</i> , 2017 , 17, 13849-13868	6.8	24
18	Shortwave aerosol radiative forcing over cloud-free oceans from Terra: 1. Angular models for aerosols. <i>Journal of Geophysical Research</i> , 2005 , 110,		24
17	Temporal variability of aerosol optical thickness vertical distribution observed from CALIOP. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016 , 121, 9117-9139	4.4	23
16	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	4.4	19
15	Quantifying uncertainties in nighttime light retrievals from Suomi-NPP and NOAA-20 VIIRS Day/Night Band data. <i>Remote Sensing of Environment</i> , 2021 , 263, 112557	13.2	18

14	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	6.8	17
13	An evaluation of the impact of aerosol particles on weather forecasts from a biomass burning aerosol event over the Midwestern United States: observational-based analysis of surface temperature. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 6475-6494	6.8	17
12	A bulk-mass-modeling-based method for retrieving particulate matter pollution using CALIOP observations. <i>Atmospheric Measurement Techniques</i> , 2019 , 12, 1739-1754	4	13
11	Investigation of CATS aerosol products and application toward global diurnal variation of aerosols. <i>Atmospheric Chemistry and Physics</i> , 2019 , 19, 12687-12707	6.8	11
10	Development of empirical angular distribution models for smoke aerosols: Methods. <i>Journal of Geophysical Research</i> , 2011 , 116,		10
9	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	2	9
8	Characterization and application of artificial light sources for nighttime aerosol optical depth retrievals using the Visible Infrared Imager Radiometer Suite Day/Night Band. <i>Atmospheric Measurement Techniques</i> , 2019 , 12, 3209-3222	4	9
7	Assessing the stability of surface lights for use in retrievals of nocturnal atmospheric parameters. <i>Atmospheric Measurement Techniques</i> , 2020 , 13, 165-190	4	3
6	Characterizing the 2015 Indonesia Fire Event Using Modified MODIS Aerosol Retrievals 2018 ,		2
5	Investigation of CATS aerosol products and application toward global diurnal variation of aerosols 2018 ,		2
4	Aerosol meteorology and Philippine receptor observations of Maritime Continent aerosol emissions for the 2012 7SEAS southwest monsoon intensive study 2016 ,		1
3	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	6.3	1
2	Observations and hypotheses related to low to middle free tropospheric aerosol, water vapor and altocumulus cloud layers within convective weather regimes: a SEAC<sup>4</sup>RS case study. <i>Atmospheric Chemistry and Physics</i> , 2019 , 19, 11413-11442	6.8	0
1	Retrieving particulate matter concentrations over the contiguous United States using CALIOP observations. <i>Atmospheric Environment</i> , 2022 , 274, 118979	5.3	0