

Jianglong Zhang

List of Publications by Year in descending order

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49
papers

3,112
citations

147801

31
h-index

206112

48
g-index

74
all docs

74
docs citations

74
times ranked

2630
citing authors

#	ARTICLE	IF	CITATIONS
1	Global Monitoring and Forecasting of Biomass-Burning Smoke: Description of and Lessons From the Fire Locating and Modeling of Burning Emissions (FLAMBE) Program. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2009, 2, 144-162.	4.9	294
2	Observing and understanding the Southeast Asian aerosol system by remote sensing: An initial review and analysis for the Seven Southeast Asian Studies (7SEAS) program. Atmospheric Research, 2013, 122, 403-468.	4.1	269
3	MODIS aerosol product analysis for data assimilation: Assessment of over-ocean level 2 aerosol optical thickness retrievals. Journal of Geophysical Research, 2006, 111, .	3.3	262
4	A system for operational aerosol optical depth data assimilation over global oceans. Journal of Geophysical Research, 2008, 113, .	3.3	210
5	An analysis of potential cloud artifacts in MODIS over ocean aerosol optical thickness products. Geophysical Research Letters, 2005, 32, .	4.0	188
6	An 11-year global gridded aerosol optical thickness reanalysis (v1.0) for atmospheric and climate sciences. Geoscientific Model Development, 2016, 9, 1489-1522.	3.6	149
7	Longwave radiative forcing of Saharan dust aerosols estimated from MODIS, MISR, and CERES observations on Terra. Geophysical Research Letters, 2003, 30, n/a-n/a.	4.0	113
8	Critical evaluation of the MODIS Deep Blue aerosol optical depth product for data assimilation over North Africa. Atmospheric Measurement Techniques, 2013, 6, 949-969.	3.1	90
9	Shortwave Aerosol Radiative Forcing from MODIS and CERES observations over the oceans. Geophysical Research Letters, 2002, 29, 6-1-6-4.	4.0	84
10	Characterizing the vertical profile of aerosol particle extinction and linear depolarization over Southeast Asia and the Maritime Continent: The 2007-2009 view from CALIOP. Atmospheric Research, 2013, 122, 520-543.	4.1	79
11	Evaluating the impact of assimilating CALIOP-derived aerosol extinction profiles on a global mass transport model. Geophysical Research Letters, 2011, 38, n/a-n/a.	4.0	70
12	Current state of the global operational aerosol multi-model ensemble: An update from the International Cooperative for Aerosol Prediction (ICAP). Quarterly Journal of the Royal Meteorological Society, 2019, 145, 176-209.	2.7	66
13	Shortwave aerosol radiative forcing over cloud-free oceans from Terra: 2. Seasonal and global distributions. Journal of Geophysical Research, 2005, 110, .	3.3	64
14	Critical evaluation of cloud contamination in the MISR aerosol products using MODIS cloud mask products. Atmospheric Measurement Techniques, 2014, 7, 1791-1801.	3.1	63
15	Has China been exporting less particulate air pollution over the past decade?. Geophysical Research Letters, 2017, 44, 2941-2948.	4.0	63
16	Impact of data quality and surface-to-column representativeness on the PM _{2.5} / satellite AOD relationship for the contiguous United States. Atmospheric Chemistry and Physics, 2014, 14, 6049-6062.	4.9	60
17	Preliminary investigations toward nighttime aerosol optical depth retrievals from the VIIRS Day/Night Band. Atmospheric Measurement Techniques, 2013, 6, 1245-1255.	3.1	58
18	An analysis of clear sky and contextual biases using an operational over ocean MODIS aerosol product. Geophysical Research Letters, 2009, 36, .	4.0	56

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19	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.	3.3	56
20	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.	4.9	56
21	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.	3.3	53
22	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.	11.0	51
23	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.	3.3	48
24	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.	3.3	47
25	Characterizing the 2015 Indonesia fire event using modified MODIS aerosol retrievals. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 259-274.	4.9	45
26	An integrated analysis of aerosol above clouds from A-Train multi-sensor measurements. <i>Remote Sensing of Environment</i> , 2012, 121, 125-131.	11.0	40
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.	3.1	40
28	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.	4.9	38
29	Shortwave aerosol radiative forcing over cloud-free oceans from Terra: 1. Angular models for aerosols. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	35
30	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.	3.3	35
31	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.	1.7	33
32	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.	4.9	32
33	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.	4.9	30
34	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.	4.9	29
35	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.	4.9	28
36	Temporal variability of aerosol optical thickness vertical distribution observed from CALIOP. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 9117-9139.	3.3	25

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37	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.	3.3	22
38	Investigation of CATS aerosol products and application toward global diurnal variation of aerosols. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 12687-12707.	4.9	20
39	A bulk-mass-modeling-based method for retrieving particulate matter pollution using CALIOP observations. <i>Atmospheric Measurement Techniques</i> , 2019, 12, 1739-1754.	3.1	18
40	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.	3.1	17
41	Multiple Angle Observations Would Benefit Visible Band Remote Sensing Using Night Lights. <i>Journal of Geophysical Research D: Atmospheres</i> , 2022, 127, .	3.3	15
42	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.	1.3	13
43	Development of empirical angular distribution models for smoke aerosols: Methods. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	11
44	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.	3.6	10
45	Assessing the stability of surface lights for use in retrievals of nocturnal atmospheric parameters. <i>Atmospheric Measurement Techniques</i> , 2020, 13, 165-190.	3.1	7
46	A Coupled Evaluation of Operational MODIS and Model Aerosol Products for Maritime Environments Using Sun Photometry: Evaluation of the Fine and Coarse Mode. <i>Remote Sensing</i> , 2022, 14, 2978.	4.0	6
47	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</sup>RS case study. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 11413-11442.	4.9	4
48	Retrieving particulate matter concentrations over the contiguous United States using CALIOP observations. <i>Atmospheric Environment</i> , 2022, 274, 118979.	4.1	2
49	Community Challenges and Prospects in the Operational Forecasting of Extreme Biomass Burning Smoke. , 2021, , .		0