

# Jianglong Zhang

## List of Publications by Year in Descending Order

**Source:** <https://exaly.com/author-pdf/1747697/jianglong-zhang-publications-by-year.pdf>

**Version:** 2024-04-19

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Retrieving particulate matter concentrations over the contiguous United States using CALIOP observations. <i>Atmospheric Environment</i> , <b>2022</b> , 274, 118979	5.3	0
48	Development of an Ozone Monitoring Instrument (OMI) aerosol index (AI) data assimilation scheme for aerosol modeling over bright surfaces as a step toward direct radiance assimilation in the UV spectrum. <i>Geoscientific Model Development</i> , <b>2021</b> , 14, 27-42	6.3	1
47	Quantifying uncertainties in nighttime light retrievals from Suomi-NPP and NOAA-20 VIIRS Day/Night Band data. <i>Remote Sensing of Environment</i> , <b>2021</b> , 263, 112557	13.2	18
46	Assessing the stability of surface lights for use in retrievals of nocturnal atmospheric parameters. <i>Atmospheric Measurement Techniques</i> , <b>2020</b> , 13, 165-190	4	3
45	Observations and hypotheses related to low to middle free tropospheric aerosol, water vapor and altocumulus cloud layers within convective weather regimes: a SEACRS case study. <i>Atmospheric Chemistry and Physics</i> , <b>2019</b> , 19, 11413-11442	6.8	0
44	A bulk-mass-modeling-based method for retrieving particulate matter pollution using CALIOP observations. <i>Atmospheric Measurement Techniques</i> , <b>2019</b> , 12, 1739-1754	4	13
43	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> , <b>2019</b> , 145, 176-209	6.4	35
42	Characterizing the 2015 Indonesia fire event using modified MODIS aerosol retrievals. <i>Atmospheric Chemistry and Physics</i> , <b>2019</b> , 19, 259-274	6.8	29
41	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> , <b>2019</b> , 12, 3209-3222	4	9
40	Investigation of CATS aerosol products and application toward global diurnal variation of aerosols. <i>Atmospheric Chemistry and Physics</i> , <b>2019</b> , 19, 12687-12707	6.8	11
39	Characterizing the 2015 Indonesia Fire Event Using Modified MODIS Aerosol Retrievals <b>2018</b> ,		2
38	Investigation of CATS aerosol products and application toward global diurnal variation of aerosols <b>2018</b> ,		2
37	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> , <b>2018</b> , 11, 499-514	4	29
36	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> , <b>2017</b> , 122, 2970-3004	4.4	25
35	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> , <b>2017</b> , 34, 355-373	2	9
34	Has China been exporting less particulate air pollution over the past decade?. <i>Geophysical Research Letters</i> , <b>2017</b> , 44, 2941-2948	4.9	51
33	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> , <b>2017</b> , 122, 4967-4992	4.4	29

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> , <b>2017</b> , 17, 13849-13868	6.8	24
31	Aerosol meteorology and Philippine receptor observations of Maritime Continent aerosol emissions for the 2012 7SEAS southwest monsoon intensive study <b>2016</b> ,		1
30	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> , <b>2016</b> , 16, 14041-14056	6.8	17
29	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> , <b>2016</b> , 16, 14057-14078	6.8	24
28	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> , <b>2016</b> , 16, 6475-6494	6.8	17
27	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> , <b>2016</b> , 16, 3927-3951	6.8	38
26	An 11-year global gridded aerosol optical thickness reanalysis (v1.0) for atmospheric and climate sciences. <i>Geoscientific Model Development</i> , <b>2016</b> , 9, 1489-1522	6.3	99
25	Temporal variability of aerosol optical thickness vertical distribution observed from CALIOP. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2016</b> , 121, 9117-9139	4.4	23
24	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> , <b>2014</b> , 14, 6049-6062	6.8	50
23	Evaluating the impact of multisensor data assimilation on a global aerosol particle transport model. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2014</b> , 119, 4674-4689	4.4	41
22	Critical evaluation of cloud contamination in the MISR aerosol products using MODIS cloud mask products. <i>Atmospheric Measurement Techniques</i> , <b>2014</b> , 7, 1791-1801	4	46
21	Evaluating the impact of aerosol particles above cloud on cloud optical depth retrievals from MODIS. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2014</b> , 119, 5410-5423	4.4	19
20	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> , <b>2013</b> , 122, 520-543	5.4	64
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> , <b>2013</b> , 118, 4700-4714	4.4	47
18	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> , <b>2013</b> , 122, 403-468	5.4	207
17	Preliminary investigations toward nighttime aerosol optical depth retrievals from the VIIRS Day/Night Band. <i>Atmospheric Measurement Techniques</i> , <b>2013</b> , 6, 1245-1255	4	43
16	Critical evaluation of the MODIS Deep Blue aerosol optical depth product for data assimilation over North Africa. <i>Atmospheric Measurement Techniques</i> , <b>2013</b> , 6, 949-969	4	71
15	An integrated analysis of aerosol above clouds from A-Train multi-sensor measurements. <i>Remote Sensing of Environment</i> , <b>2012</b> , 121, 125-131	13.2	39

14	Development of empirical angular distribution models for smoke aerosols: Methods. <i>Journal of Geophysical Research</i> , <b>2011</b> , 116,		10
13	Evaluating the impact of assimilating CALIOP-derived aerosol extinction profiles on a global mass transport model. <i>Geophysical Research Letters</i> , <b>2011</b> , 38, n/a-n/a	4.9	61
12	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> , <b>2010</b> , 3, 203-214	4.7	29
11	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> , <b>2009</b> , 2, 144-162	4.7	242
10	An analysis of clear sky and contextual biases using an operational over ocean MODIS aerosol product. <i>Geophysical Research Letters</i> , <b>2009</b> , 36, n/a-n/a	4.9	53
9	A system for operational aerosol optical depth data assimilation over global oceans. <i>Journal of Geophysical Research</i> , <b>2008</b> , 113,		177
8	MODIS aerosol product analysis for data assimilation: Assessment of over-ocean level 2 aerosol optical thickness retrievals. <i>Journal of Geophysical Research</i> , <b>2006</b> , 111,		227
7	Shortwave aerosol radiative forcing over cloud-free oceans from Terra: 1. Angular models for aerosols. <i>Journal of Geophysical Research</i> , <b>2005</b> , 110,		24
6	Shortwave aerosol radiative forcing over cloud-free oceans from Terra: 2. Seasonal and global distributions. <i>Journal of Geophysical Research</i> , <b>2005</b> , 110,		47
5	An analysis of potential cloud artifacts in MODIS over ocean aerosol optical thickness products. <i>Geophysical Research Letters</i> , <b>2005</b> , 32,	4.9	169
4	Longwave radiative forcing of Saharan dust aerosols estimated from MODIS, MISR, and CERES observations on Terra. <i>Geophysical Research Letters</i> , <b>2003</b> , 30, n/a-n/a	4.9	102
3	Daytime Variation of Shortwave Direct Radiative Forcing of Biomass Burning Aerosols from GOES-8 Imager. <i>Journals of the Atmospheric Sciences</i> , <b>2002</b> , 59, 681-691	2.1	29
2	Shortwave Aerosol Radiative Forcing from MODIS and CERES observations over the oceans. <i>Geophysical Research Letters</i> , <b>2002</b> , 29, 6-1-6-4	4.9	75
1	Intercomparison of smoke aerosol optical thickness derived from GOES 8 imager and ground-based Sun photometers. <i>Journal of Geophysical Research</i> , <b>2001</b> , 106, 7387-7397		41