

# Tianle Yuan

## List of Publications by Year in descending order

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Version: 2024-02-01

30  
papers

2,032  
citations

331670

21  
h-index

501196

28  
g-index

48  
all docs

48  
docs citations

48  
times ranked

2914  
citing authors

#	ARTICLE	IF	CITATIONS
1	Dominant role by vertical wind shear in regulating aerosol effects on deep convective clouds. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	265
2	The fertilizing role of African dust in the Amazon rainforest: A first multiyear assessment based on data from Cloudâ€Aerosol Lidar and Infrared Pathfinder Satellite Observations. <i>Geophysical Research Letters</i> , 2015, 42, 1984-1991.	4.0	251
3	Aerosols from Overseas Rival Domestic Emissions over North America. <i>Science</i> , 2012, 337, 566-569.	12.6	213
4	Observational evidence of aerosol enhancement of lightning activity and convective invigoration. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	4.0	155
5	Preface to special section on East Asian Studies of Tropospheric Aerosols: An International Regional Experiment (EASTâ€AIRE). <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	151
6	Quantification of trans-Atlantic dust transport from seven-year (2007â€2013) record of CALIPSO lidar measurements. <i>Remote Sensing of Environment</i> , 2015, 159, 232-249.	11.0	146
7	Increase of cloud droplet size with aerosol optical depth: An observation and modeling study. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	138
8	Microphysical, macrophysical and radiative signatures of volcanic aerosols in trade wind cumulus observed by the A-Train. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 7119-7132.	4.9	108
9	Positive low cloud and dust feedbacks amplify tropical North Atlantic Multidecadal Oscillation. <i>Geophysical Research Letters</i> , 2016, 43, 1349-1356.	4.0	99
10	Estimates of African Dust Deposition Along the Transâ€Atlantic Transit Using the Decadelong Record of Aerosol Measurements from CALIOP, MODIS, MISR, and IASI. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 7975-7996.	3.3	68
11	Opportunistic experiments to constrain aerosol effective radiative forcing. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 641-674.	4.9	44
12	General Macro- and Microphysical Properties of Deep Convective Clouds as Observed by MODIS. <i>Journal of Climate</i> , 2010, 23, 3457-3473.	3.2	42
13	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
14	Interannual variability and trends of combustion aerosol and dust in major continental outflows revealed by MODIS retrievals and CAM5 simulations during 2003â€2017. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 139-161.	4.9	38
15	On the global character of overlap between low and high clouds. <i>Geophysical Research Letters</i> , 2013, 40, 5320-5326.	4.0	36
16	Reconstruction of Cloud Vertical Structure With a Generative Adversarial Network. <i>Geophysical Research Letters</i> , 2019, 46, 7035-7044.	4.0	30
17	Estimating glaciation temperature of deep convective clouds with remote sensing data. <i>Geophysical Research Letters</i> , 2010, 37, .	4.0	28
18	The Sensitivity of Hurricane Irene to Aerosols and Ocean Coupling: Simulations with WRF Spectral Bin Microphysics. <i>Journals of the Atmospheric Sciences</i> , 2016, 73, 467-486.	1.7	27

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19	Observation and modeling of the historic “Godzilla” African dust intrusion into the Caribbean Basin and the southern US in June 2020. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 12359-12383.	4.9	27
20	Aerosol indirect effect on tropospheric ozone via lightning. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	24
21	Observations of Local Positive Low Cloud Feedback Patterns and Their Role in Internal Variability and Climate Sensitivity. <i>Geophysical Research Letters</i> , 2018, 45, 4438-4445.	4.0	23
22	Automatically Finding Ship Tracks to Enable Large-Scale Analysis of Aerosol-Cloud Interactions. <i>Geophysical Research Letters</i> , 2019, 46, 7726-7733.	4.0	18
23	MODIS Retrievals of Cloud Effective Radius in Marine Stratocumulus Exhibit No Significant Bias. <i>Geophysical Research Letters</i> , 2018, 45, 10,656.	4.0	15
24	Vertical distribution of the particle phase in tropical deep convective clouds as derived from cloud-side reflected solar radiation measurements. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 9049-9066.	4.9	14
25	Applying deep learning to NASA MODIS data to create a community record of marine low-cloud mesoscale morphology. <i>Atmospheric Measurement Techniques</i> , 2020, 13, 6989-6997.	3.1	9
26	Effect of volcanic emissions on clouds during the 2008 and 2018 Kilauea degassing events. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 7749-7771.	4.9	8
27	Identifying meteorological influences on marine low-cloud mesoscale morphology using satellite classifications. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 9629-9642.	4.9	6
28	Anthropogenic Decline of African Dust: Insights From the Holocene Records and Beyond. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL089711.	4.0	5
29	Current and Future Perspectives of Aerosol Research at NASA Goddard Space Flight Center. <i>Bulletin of the American Meteorological Society</i> , 2014, 95, ES203-ES207.	3.3	0
30	MISR Radiance Anomalies Induced by Stratospheric Volcanic Aerosols. <i>Remote Sensing</i> , 2018, 10, 1875.	4.0	0