

# Yiran Peng

## List of Publications by Year in descending order

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Version: 2024-02-01

37  
papers

2,513  
citations

361413

20  
h-index

361022

35  
g-index

38  
all docs

38  
docs citations

38  
times ranked

2229  
citing authors

#	ARTICLE	IF	CITATIONS
1	Numerical simulation of clouds and precipitation depending on different relationships between aerosol and cloud droplet spectral dispersion. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 65, 19054.	1.6	27
2	Analyzing the Characteristics of Cloud Condensation Nuclei (CCN) in Hebei, China Using Multi-Year Observation and Reanalysis Data. <i>Atmosphere</i> , 2022, 13, 468.	2.3	0
3	Evaluation of a quasi-steady-state approximation of the cloud droplet growth equation (QDGE) scheme for aerosol activation in global models using multiple aircraft data over both continental and marine environments. <i>Geoscientific Model Development</i> , 2022, 15, 2949-2971.	3.6	0
4	Investigation of ice cloud modeling capabilities for the irregularly shaped Voronoi ice scattering models in climate simulations. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 4809-4825.	4.9	14
5	Model evaluation of short-lived climate forcers for the Arctic Monitoring and Assessment Programme: a multi-species, multi-model study. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 5775-5828.	4.9	15
6	Potential Impacts of Aerosol on Diurnal Variation of Precipitation in Autumn Over the Sichuan Basin, China. <i>Journal of Geophysical Research D: Atmospheres</i> , 2022, 127, .	3.3	2
7	Reconstructing 1-km-resolution high-quality PM <sub>2.5</sub> data records from 2000 to 2018 in China: spatiotemporal variations and policy implications. <i>Remote Sensing of Environment</i> , 2021, 252, 112136.	11.0	429
8	Estimates of daily ground-level NO <sub>2</sub> concentrations in China based on Random Forest model integrated K-means. <i>Advances in Applied Energy</i> , 2021, 2, 100017.	13.2	19
9	Investigation of the Uncertainties of Simulated Optical Properties of Brown Carbon at Two Asian Sites Using a Modified Bulk Aerosol Optical Scheme of the Community Atmospheric Model Version 5.3. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2020JD033942.	3.3	3
10	Tracking Air Pollution in China: Near Real-Time PM <sub>2.5</sub> Retrievals from Multisource Data Fusion. <i>Environmental Science &amp; Technology</i> , 2021, 55, 12106-12115.	10.0	205
11	A Modelling Study on PM <sub>2.5</sub> -Related Health Impacts from Climate Change and Air Pollution Emission Control in China, 2010s and 2040s. <i>China CDC Weekly</i> , 2021, 3, 500-506.	2.3	2
12	Understanding Cloud Droplet Spectral Dispersion Effect Using Empirical and Semi-Analytical Parameterizations in NCAR CAM5.3. <i>Earth and Space Science</i> , 2020, 7, e2020EA001276.	2.6	9
13	Contrasting Aerosol Effects on Long-Wave Cloud Forcing in South East Asia and Amazon Simulated With Community Atmosphere Model Version 5.3. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2020JD032380.	3.3	2
14	A DRP-4DVar-Based Coupled Data Assimilation System With a Simplified Offline Localization Technique for Decadal Predictions. <i>Journal of Advances in Modeling Earth Systems</i> , 2020, 12, e2019MS001768.	3.8	9
15	A new DRP-4DVar-based coupled data assimilation system for decadal predictions using a fast online localization technique. <i>Climate Dynamics</i> , 2020, 54, 3541-3559.	3.8	8
16	Community Integrated Earth System Model (CIEM): Description and Evaluation. <i>Journal of Advances in Modeling Earth Systems</i> , 2020, 12, e2019MS002036.	3.8	44
17	Evaluation on the Vertical Distribution of Liquid and Ice Phase Cloud Fraction in Community Atmosphere Model Version 5.3 using Spaceborne Lidar Observations. <i>Earth and Space Science</i> , 2020, 7, e2019EA001029.	2.6	6
18	Improved 1-km resolution PM <sub>2.5</sub> estimates across China using enhanced space-time extremely randomized trees. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 3273-3289.	4.9	321

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19	The Trend Reversal of Dust Aerosol Over East Asia and the North Pacific Ocean Attributed to Large-scale Meteorology, Deposition, and Soil Moisture. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 10450-10466.	3.3	25
20	Estimating 1-km-resolution PM2.5 concentrations across China using the space-time random forest approach. <i>Remote Sensing of Environment</i> , 2019, 231, 111221.	11.0	340
21	Chemical and optical properties of carbonaceous aerosols in Nanjing, eastern China: regionally transported biomass burning contribution. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 11213-11233.	4.9	46
22	Evaluation and uncertainty estimate of next-generation geostationary meteorological Himawari-8/AHI aerosol products. <i>Science of the Total Environment</i> , 2019, 692, 879-891.	8.0	46
23	Improved merge schemes for MODIS Collection 6.1 Dark Target and Deep Blue combined aerosol products. <i>Atmospheric Environment</i> , 2019, 202, 315-327.	4.1	32
24	Intercomparison in spatial distributions and temporal trends derived from multi-source satellite aerosol products. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 7183-7207.	4.9	82
25	A Regionally Robust High-Spatial-Resolution Aerosol Retrieval Algorithm for MODIS Images Over Eastern China. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2019, 57, 4748-4757.	6.3	39
26	Performance of MODIS Collection 6.1 Level 3 aerosol products in spatial-temporal variations over land. <i>Atmospheric Environment</i> , 2019, 206, 30-44.	4.1	64
27	MODIS Collection 6.1 aerosol optical depth products over land and ocean: validation and comparison. <i>Atmospheric Environment</i> , 2019, 201, 428-440.	4.1	209
28	Height Dependency of Aerosol-Cloud Interaction Regimes. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 491-506.	3.3	29
29	An Improved High-Spatial-Resolution Aerosol Retrieval Algorithm for MODIS Images Over Land. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 12,291.	3.3	42
30	Cloud Longwave Scattering Effect and Its Impact on Climate Simulation. <i>Atmosphere</i> , 2018, 9, 153.	2.3	10
31	Role of microphysical parameterizations with droplet relative dispersion in IAP AGCM 4.1. <i>Advances in Atmospheric Sciences</i> , 2018, 35, 248-259.	4.3	4
32	A single ice approach using varying ice particle properties in global climate model microphysics. <i>Journal of Advances in Modeling Earth Systems</i> , 2017, 9, 2138-2157.	3.8	21
33	Sensitivity study of cloud parameterizations with relative dispersion in CAM5.1: impacts on aerosol indirect effects. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 5877-5892.	4.9	24
34	New understanding and quantification of the regime dependence of aerosol-cloud interaction for studying aerosol indirect effects. <i>Geophysical Research Letters</i> , 2016, 43, 1780-1787.	4.0	67
35	Summer rainfall over the southwestern Tibetan Plateau controlled by deep convection over the Indian subcontinent. <i>Nature Communications</i> , 2016, 7, 10925.	12.8	160
36	Dispersion bias, dispersion effect, and the aerosol-cloud conundrum. <i>Environmental Research Letters</i> , 2008, 3, 045021.	5.2	68

#	ARTICLE	IF	CITATIONS
37	Sensitivity study of the spectral dispersion of the cloud droplet size distribution on the indirect aerosol effect. <i>Geophysical Research Letters</i> , 2003, 30, n/a-n/a.	4.0	90