Yiran Peng

List of Publications by Year
in descending order

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	Reconstructing 1-km-resolution high-quality PM2.5 data records from 2000 to 2018 in China: spatiotemporal variations and policy implications. Remote Sensing of Environment, 2021, 252, 112136.	11.0	429
2	Estimating 1-km-resolution PM2.5 concentrations across China using the space-time random forest approach. Remote Sensing of Environment, 2019, 231, 111221.	11.0	340
3	Improved 1‰km resolution PM<sub>2.5</sub> estimates across China using enhanced space–time extremely randomized trees. Atmospheric Chemistry and Physics, 2020, 20, 3273-3289.	4.9	321
4	MODIS Collection 6.1 aerosol optical depth products over land and ocean: validation and comparison. Atmospheric Environment, 2019, 201, 428-440.	4.1	209
5	Tracking Air Pollution in China: Near Real-Time PM2.5 Retrievals from Multisource Data Fusion. Environmental Science & Technology, 2021, 55, 12106-12115.	10.0	205
6	Summer rainfall over the southwestern Tibetan Plateau controlled by deep convection over the Indian subcontinent. Nature Communications, 2016, 7, 10925.	12.8	160
7	Sensitivity study of the spectral dispersion of the cloud droplet size distribution on the indirect aerosol effect. Geophysical Research Letters, 2003, 30, n/a-n/a.	4.0	90
8	Intercomparison in spatial distributions and temporal trends derived from multi-source satellite aerosol products. Atmospheric Chemistry and Physics, 2019, 19, 7183-7207.	4.9	82
9	Dispersion bias, dispersion effect, and the aerosol–cloud conundrum. Environmental Research Letters, 2008, 3, 045021.	5.2	68
10	New understanding and quantification of the regime dependence of aerosol–cloud interaction for studying aerosol indirect effects. Geophysical Research Letters, 2016, 43, 1780-1787.	4.0	67
11	Performance of MODIS Collection 6.1 Level 3 aerosol products in spatial-temporal variations over land. Atmospheric Environment, 2019, 206, 30-44.	4.1	64
12	Chemical and optical properties of carbonaceous aerosols in Nanjing, eastern China: regionally transported biomass burning contribution. Atmospheric Chemistry and Physics, 2019, 19, 11213-11233.	4.9	46
13	Evaluation and uncertainty estimate of next-generation geostationary meteorological Himawari-8/AHI aerosol products. Science of the Total Environment, 2019, 692, 879-891.	8.0	46
14	Community Integrated Earth System Model (CIESM): Description and Evaluation. Journal of Advances in Modeling Earth Systems, 2020, 12, e2019MS002036.	3.8	44
15	An Improved High‐Spatial‐Resolution Aerosol Retrieval Algorithm for MODIS Images Over Land. Journal of Geophysical Research D: Atmospheres, 2018, 123, 12,291.	3.3	42
16	A Regionally Robust High-Spatial-Resolution Aerosol Retrieval Algorithm for MODIS Images Over Eastern China. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 4748-4757.	6.3	39
17	Improved merge schemes for MODIS Collection 6.1 Dark Target and Deep Blue combined aerosol products. Atmospheric Environment, 2019, 202, 315-327.	4.1	32
18	Height Dependency of Aerosol–Cloud Interaction Regimes. Journal of Geophysical Research D: Atmospheres, 2018, 123, 491-506.	3.3	29

#	Article	IF	Citations
19	Numerical simulation of clouds and precipitation depending on different relationships between aerosol and cloud droplet spectral dispersion. Tellus, Series B: Chemical and Physical Meteorology, 2022, 65, 19054.	1.6	27
20	The Trend Reversal of Dust Aerosol Over East Asia and the North Pacific Ocean Attributed to Large‐Scale Meteorology, Deposition, and Soil Moisture. Journal of Geophysical Research D: Atmospheres, 2019, 124, 10450-10466.	3.3	25
21	Sensitivity study of cloud parameterizations with relative dispersion in CAM5.1: impacts on aerosol indirect effects. Atmospheric Chemistry and Physics, 2017, 17, 5877-5892.	4.9	24
22	A single ice approach using varying ice particle properties in global climate model microphysics. Journal of Advances in Modeling Earth Systems, 2017, 9, 2138-2157.	3.8	21
23	Estimates of daily ground-level NO_2 concentrations in China based on Random Forest model integrated K-means. Advances in Applied Energy, 2021, 2, 100017.	13.2	19
24	Model evaluation of short-lived climate forcers for the Arctic Monitoring and Assessment Programme: a multi-species, multi-model study. Atmospheric Chemistry and Physics, 2022, 22, 5775-5828.	4.9	15
25	Investigation of ice cloud modeling capabilities for the irregularly shaped Voronoi ice scattering models in climate simulations. Atmospheric Chemistry and Physics, 2022, 22, 4809-4825.	4.9	14
26	Cloud Longwave Scattering Effect and Its Impact on Climate Simulation. Atmosphere, 2018, 9, 153.	2.3	10
27	Understanding Cloud Droplet Spectral Dispersion Effect Using Empirical and Semi‐Analytical Parameterizations in NCAR CAM5.3. Earth and Space Science, 2020, 7, e2020EA001276.	2.6	9
28	A DRP‐4DVar‐Based Coupled Data Assimilation System With a Simplified Off‐Line Localization Technique for Decadal Predictions. Journal of Advances in Modeling Earth Systems, 2020, 12, e2019MS001768.	3.8	9
29	A new DRP-4DVar-based coupled data assimilation system for decadal predictions using a fast online localization technique. Climate Dynamics, 2020, 54, 3541-3559.	3.8	8
30	Evaluation on the Vertical Distribution of Liquid and Ice Phase Cloud Fraction in Community Atmosphere Model Version 5.3 using Spaceborne Lidar Observations. Earth and Space Science, 2020, 7, e2019EA001029.	2.6	6
31	Role of microphysical parameterizations with droplet relative dispersion in IAP AGCM 4.1. Advances in Atmospheric Sciences, 2018, 35, 248-259.	4.3	4
32	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. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2020JD033942.	3.3	3
33	Contrasting Aerosol Effects on Long‐Wave Cloud Forcing in South East Asia and Amazon Simulated With Community Atmosphere Model Version 5.3. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2020JD032380.	3.3	2
34	A Modelling Study on PM$_{2.5}$-Related Health Impacts from Climate Change and Air Pollution Emission Control â€" China, 2010s and 2040s. China CDC Weekly, 2021, 3, 500-506.	2.3	2
35	Potential Impacts of Aerosol on Diurnal Variation of Precipitation in Autumn Over the Sichuan Basin, China. Journal of Geophysical Research D: Atmospheres, 2022, 127, .	3.3	2
36	Analyzing the Characteristics of Cloud Condensation Nuclei (CCN) in Hebei, China Using Multi-Year Observation and Reanalysis Data. Atmosphere, 2022, 13, 468.	2.3	0

#	Article	IF	Citations
37	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. Geoscientific Model Development, 2022, 15, 2949-2971.	3.6	0