Tianning Su

List of Publications by Year
in descending order

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22 papers	1,621 citations	471061 17 h-index	676716 22 g-index
28 all docs	28 docs citations	28 times ranked	1362 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.	4.6	429
2	Relationships between the planetary boundary layer height and surface pollutants derived from lidar observations over China: regional pattern and influencing factors. Atmospheric Chemistry and Physics, 2018, 18, 15921-15935.	1.9	195
3	The ChinaHighPM10 dataset: generation, validation, and spatiotemporal variations from 2015 to 2019 across China. Environment International, 2021, 146, 106290.	4.8	168
4	Declining frequency of summertime localâ€scale precipitation over eastern China from 1970 to 2010 and its potential link to aerosols. Geophysical Research Letters, 2017, 44, 5700-5708.	1.5	113
5	Investigation of near-global daytime boundary layer height using high-resolution radiosondes: first results and comparison with ERA5, MERRA-2, JRA-55, and NCEP-2 reanalyses. Atmospheric Chemistry and Physics, 2021, 21, 17079-17097.	1.9	99
6	The significant impact of aerosol vertical structure on lower atmosphere stability and its critical role in aerosolâ€“planetary boundary layer (PBL) interactions. Atmospheric Chemistry and Physics, 2020, 20, 3713-3724.	1.9	79
7	An intercomparison of longâ€term planetary boundary layer heights retrieved from CALIPSO, groundâ€based lidar, and radiosonde measurements over Hong Kong. Journal of Geophysical Research D: Atmospheres, 2017, 122, 3929-3943.	1.2	72
8	Changes in surface aerosol extinction trends over China during 1980â€“2013 inferred from qualityâ€controlled visibility data. Geophysical Research Letters, 2016, 43, 8713-8719.	1.5	55
9	Abnormally Shallow Boundary Layer Associated With Severe Air Pollution During the COVIDâ€19 Lockdown in China. Geophysical Research Letters, 2020, 47, e2020GL090041.	1.5	54
10	Declining Summertime Localâ€Scale Precipitation Frequency Over China and the United States, 1981â€“2012: The Disparate Roles of Aerosols. Geophysical Research Letters, 2019, 46, 13281-13289.	1.5	48
11	Evaluation and uncertainty estimate of next-generation geostationary meteorological Himawari-8/AHI aerosol products. Science of the Total Environment, 2019, 692, 879-891.	3.9	46
12	A new method to retrieve the diurnal variability of planetary boundary layer height from lidar under different thermodynamic stability conditions. Remote Sensing of Environment, 2020, 237, 111519.	4.6	44
13	The mechanisms and seasonal differences of the impact of aerosols on daytime surface urban heat island effect. Atmospheric Chemistry and Physics, 2020, 20, 6479-6493.	1.9	44
14	The Climatology of Lower Tropospheric Temperature Inversions in China from Radiosonde Measurements: Roles of Black Carbon, Local Meteorology, and Large-Scale Subsidence. Journal of Climate, 2020, 33, 9327-9350.	1.2	42
15	Seasonal and diurnal variability of planetary boundary layer height in Beijing: Intercomparison between MPL and WRF results. Atmospheric Research, 2019, 227, 1-13.	1.8	37
16	An intercomparison of AOD-converted PM2.5 concentrations using different approaches for estimating aerosol vertical distribution. Atmospheric Environment, 2017, 166, 531-542.	1.9	31
17	The Urbanâ€“Rural Heterogeneity of Air Pollution in 35 Metropolitan Regions across China. Remote Sensing, 2020, 12, 2320.	1.8	22
18	Refining aerosol optical depth retrievals over land by constructing the relationship of spectral surface reflectances through deep learning: Application to Himawari-8. Remote Sensing of Environment, 2020, 251, 112093.	4.6	14

#	Article	IF	Citations
19	The different sensitivities of aerosol optical properties to particle concentration, humidity, and hygroscopicity between the surface level and the upper boundary layer in Guangzhou, China. Science of the Total Environment, 2022, 803, 150010.	3.9	9
20	The Evolution of Springtime Water Vapor Over Beijing Observed by a High Dynamic Raman Lidar System: Case Studies. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2017, 10, 1715-1726.	2.3	7
21	Methodology to determine the coupling of continental clouds with surface and boundary layer height under cloudy conditions from lidar and meteorological data. Atmospheric Chemistry and Physics, 2022, 22, 1453-1466.	1.9	6
22	Idealized Large-Eddy Simulations of Stratocumulus Advecting over Cold Water. Part I: Boundary Layer Decoupling. Journals of the Atmospheric Sciences, 2021, 78, 4089-4102.	0.6	3