

# Kaixu Bai

## List of Publications by Year in descending order

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Version: 2024-02-01

37  
papers

774  
citations

586496

16  
h-index

620720

26  
g-index

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42  
docs citations

42  
times ranked

931  
citing authors

#	ARTICLE	IF	CITATIONS
1	Synergistic data fusion of multimodal AOD and air quality data for near real-time full coverage air pollution assessment. <i>Journal of Environmental Management</i> , 2022, 302, 114121.	3.8	18
2	Impact of near-surface turbulence on PM <sub>2.5</sub> concentration in Chengdu during the COVID-19 pandemic. <i>Atmospheric Environment</i> , 2022, 268, 118848.	1.9	8
3	Multiscale and multisource data fusion for full-coverage PM <sub>2.5</sub> concentration mapping: Can spatial pattern recognition come with modeling accuracy?. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2022, 184, 31-44.	4.9	17
4	Do More Frequent Temperature Inversions Aggravate Haze Pollution in China?. <i>Geophysical Research Letters</i> , 2022, 49, .	1.5	8
5	LGHAP: the Long-term Gap-free High-resolution Air Pollutant concentration dataset, derived via tensor-flow-based multimodal data fusion. <i>Earth System Science Data</i> , 2022, 14, 907-927.	3.7	46
6	Optimal Planning of Air Quality-Monitoring Sites for Better Depiction of PM <sub>2.5</sub> Pollution across China. <i>ACS Environmental Au</i> , 2022, 2, 314-323.	3.3	4
7	Evaluation of Vegetation Indexes and Green-Up Date Extraction Methods on the Tibetan Plateau. <i>Remote Sensing</i> , 2022, 14, 3160.	1.8	6
8	Technical note: First comparison of wind observations from ESA's satellite mission Aeolus and ground-based radar wind profiler network of China. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 2945-2958.	1.9	43
9	Characteristics of Chemical Speciation in PM <sub>1</sub> in Six Representative Regions in China. <i>Advances in Atmospheric Sciences</i> , 2021, 38, 1101-1114.	1.9	4
10	Particulate Amines in the Background Atmosphere of the Yangtze River Delta, China: Concentration, Size Distribution, and Sources. <i>Advances in Atmospheric Sciences</i> , 2021, 38, 1128-1140.	1.9	15
11	Satellite remote sensing of atmospheric particulate matter mass concentration: Advances, challenges, and perspectives. <i>Fundamental Research</i> , 2021, 1, 240-258.	1.6	40
12	Distinct spatiotemporal variation patterns of surface ozone in China due to diverse influential factors. <i>Journal of Environmental Management</i> , 2021, 288, 112368.	3.8	34
13	Influence of COVID-19 lockdown overlapping Chinese Spring Festival on household PM <sub>2.5</sub> in rural Chinese homes. <i>Chemosphere</i> , 2021, 278, 130406.	4.2	21
14	Multi-source hierarchical data fusion for high-resolution AOD mapping in a forest fire event. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2021, 102, 102366.	1.4	11
15	Satellite remote sensing of aerosol optical depth: advances, challenges, and perspectives. <i>Critical Reviews in Environmental Science and Technology</i> , 2020, 50, 1640-1725.	6.6	68
16	Validation and Calibration of CAMS PM <sub>2.5</sub> Forecasts Using In Situ PM <sub>2.5</sub> Measurements in China and United States. <i>Remote Sensing</i> , 2020, 12, 3813.	1.8	13
17	A Comparative Assessment of Multisensor Data Merging and Fusion Algorithms for High-Resolution Surface Reflectance Data. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2020, 13, 4044-4059.	2.3	11
18	Filling the gaps of in situ hourly PM <sub>2.5</sub> concentration data with the aid of empirical orthogonal function analysis constrained by diurnal cycles. <i>Atmospheric Measurement Techniques</i> , 2020, 13, 1213-1226.	1.2	19

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19	A homogenized daily in situ PM <sub>2.5</sub> concentration dataset from the national air quality monitoring network in China. <i>Earth System Science Data</i> , 2020, 12, 3067-3080.	3.7	16
20	Spatiotemporal Associations between PM <sub>2.5</sub> and SO <sub>2</sub> as well as NO <sub>2</sub> in China from 2015 to 2018. <i>International Journal of Environmental Research and Public Health</i> , 2019, 16, 2352.	1.2	12
21	Spatial and Temporal Variabilities of PM <sub>2.5</sub> Concentrations in China Using Functional Data Analysis. <i>Sustainability</i> , 2019, 11, 1620.	1.6	6
22	Advancing the prediction accuracy of satellite-based PM <sub>2.5</sub> concentration mapping: A perspective of data mining through in situ PM <sub>2.5</sub> measurements. <i>Environmental Pollution</i> , 2019, 254, 113047.	3.7	32
23	Spatiotemporal trend analysis for fine particulate matter concentrations in China using high-resolution satellite-derived and ground-measured PM <sub>2.5</sub> data. <i>Journal of Environmental Management</i> , 2019, 233, 530-542.	3.8	55
24	Diagnosing atmospheric stability effects on the modeling accuracy of PM <sub>2.5</sub> /AOD relationship in eastern China using radiosonde data. <i>Environmental Pollution</i> , 2019, 251, 380-389.	3.7	14
25	Estimating Ground-Level Concentrations of Multiple Air Pollutants and Their Health Impacts in the Huaihe River Basin in China. <i>International Journal of Environmental Research and Public Health</i> , 2019, 16, 579.	1.2	8
26	Multisensor Satellite Image Fusion and Networking for All-Weather Environmental Monitoring. <i>IEEE Systems Journal</i> , 2018, 12, 1341-1357.	2.9	37
27	Quantifying impacts of crop residue burning in the North China Plain on summertime tropospheric ozone over East Asia. <i>Atmospheric Environment</i> , 2018, 194, 14-30.	1.9	10
28	The impact of global unknown teleconnection patterns on terrestrial precipitation across North and Central America. <i>Atmospheric Research</i> , 2017, 193, 107-124.	1.8	7
29	An intercomparison of multidecadal observational and reanalysis data sets for global total ozone trends and variability analysis. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 7119-7139.	1.2	9
30	Integrating multisensor satellite data merging and image reconstruction in support of machine learning for better water quality management. <i>Journal of Environmental Management</i> , 2017, 201, 227-240.	3.8	49
31	Statistical bias correction for creating coherent total ozone record from OMI and OMPS observations. <i>Remote Sensing of Environment</i> , 2016, 182, 150-168.	4.6	35
32	Quantification of relative contribution of Antarctic ozone depletion to increased austral extratropical precipitation during 1979–2013. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 1459-1474.	1.2	21
33	Spectral Information Adaptation and Synthesis Scheme for Merging Cross-Mission Ocean Color Reflectance Observations From MODIS and VIIRS. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2016, 54, 311-329.	2.7	15
34	Diagnosis of the artificial intelligence-based predictions of flow regime in a constructed wetland for stormwater pollution control. <i>Ecological Informatics</i> , 2015, 28, 42-60.	2.3	13
35	Comparison of Suomi-NPP OMPS total column ozone with Brewer and Dobson spectrophotometers measurements. <i>Frontiers of Earth Science</i> , 2015, 9, 369-380.	0.9	11
36	Smart Information Reconstruction via Time-Space-Spectrum Continuum for Cloud Removal in Satellite Images. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2015, 8, 1898-1912.	2.3	27

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37	Global validation of FY-3A total ozone unit (TOU) total ozone columns using ground-based Brewer and Dobson measurements. International Journal of Remote Sensing, 2013, 34, 5228-5242.	1.3	8