Weihua Chen

List of Publications by Year in Descending Order

36 papers	**410** citations	**11** h-index	**19** g-index
41 ext. papers	**548** ext. citations	**6.7** avg, IF	**3.42** L-index

#	Paper	IF	Citations
36	Improvement of stomatal resistance and photosynthesis mechanism of Noah-MP-WDDM (v1.42) in simulation of NO<sub>2</sub> dry deposition velocity in forests. *Geoscientific Model Development*, **2022**, 15, 787-801	6.3	
35	Seasonal variation of transport pathways and potential source areas at high inorganic nitrogen wet deposition sites in southern China.. *Journal of Environmental Sciences*, **2022**, 114, 444-453	6.4	0
34	A New Index Developed for Fast Diagnosis of Meteorological Roles in Ground-Level Ozone Variations.. *Advances in Atmospheric Sciences*, **2022**, 39, 1-12	2.9	2
33	Assessment of background ozone concentrations in China and implications for using region-specific volatile organic compounds emission abatement to mitigate air pollution.. *Environmental Pollution*, **2022**, 119254	9.3	
32	Synergistic effects of biogenic volatile organic compounds and soil nitric oxide emissions on summertime ozone formation in China.. *Science of the Total Environment*, **2022**, 154218	10.2	
31	Significant contribution of lightning NO to summertime surface O on the Tibetan Plateau.. *Science of the Total Environment*, **2022**, 154639	10.2	2
30	The Development and Application of Machine Learning in Atmospheric Environment Studies. *Remote Sensing*, **2021**, 13, 4839	5	1
29	Ozone control strategies for local formation- and regional transport-dominant scenarios in a manufacturing city in southern China. *Science of the Total Environment*, **2021**, 151883	10.2	0
28	A comprehensive evaluation of aerosol extinction apportionment in Beijing using a high-resolution time-of-flight aerosol mass spectrometer. *Science of the Total Environment*, **2021**, 783, 146976	10.2	1
27	Deposition of ambient particles in the human respiratory system based on single particle analysis: A case study in the Pearl River Delta, China. *Environmental Pollution*, **2021**, 283, 117056	9.3	
26	Quantifying the role of PM dropping in variations of ground-level ozone: Inter-comparison between Beijing and Los Angeles. *Science of the Total Environment*, **2021**, 788, 147712	10.2	14
25	Measurement report: Vertical distribution of atmospheric particulate matter within the urban boundary layer in southern China size-segregated chemical composition and secondary formation through cloud processing and heterogeneous reactions. *Atmospheric Chemistry and Physics*, **2020**, 20, 6435-6453	6.8	8
24	Are typhoon and marine eutrophication the possible missing sources of high dissolved organic nitrogen in wet deposition?. *Atmospheric and Oceanic Science Letters*, **2020**, 13, 182-187	1.4	1
23	Aerosol optical depth assimilation for a modal aerosol model: Implementation and application in AOD forecasts over East Asia. *Science of the Total Environment*, **2020**, 719, 137430	10.2	6
22	A quantitative analysis of the driving factors affecting seasonal variation of aerosol pH in Guangzhou, China. *Science of the Total Environment*, **2020**, 725, 138228	10.2	5
21	Application of a Negative Multinomial Model Gives Insight into Rarity-Area Relationships. *Forests*, **2020**, 11, 571	2.8	
20	An optimal ensemble of the Noah-MP land surface model for simulating surface heat fluxes over a typical subtropical forest in South China. *Agricultural and Forest Meteorology*, **2020**, 281, 107815	5.8	9

19	Size-segregated deposition of atmospheric elemental carbon (EC) in the human respiratory system: A case study of the Pearl River Delta, China. *Science of the Total Environment*, **2020**, 708, 134932	10.2	7
18	Meteorological variations impeded the benefits of recent NO mitigation in reducing atmospheric nitrate deposition in the Pearl River Delta region, Southeast China. *Environmental Pollution*, **2020**, 266, 115076	9.3	4
17	Temporal and spatial patterns of nitrogen wet deposition in different weather types in the Pearl River Delta (PRD), China. *Science of the Total Environment*, **2020**, 740, 139936	10.2	3
16	Stabilization for the secondary species contribution to PM2.5 in the Pearl River Delta (PRD) over the past decade, China: A meta-analysis. *Atmospheric Environment*, **2020**, 242, 117817	5.3	11
15	Improvement and Impacts of Forest Canopy Parameters on Noah-MP Land Surface Model from UAV-Based Photogrammetry. *Remote Sensing*, **2020**, 12, 4120	5	1
14	A new method for quantification of regional nitrogen emission - Deposition transmission in China. *Atmospheric Environment*, **2020**, 227, 117401	5.3	6
13	Evidence of Rural and Suburban Sources of Urban Haze Formation in China: A Case Study From the Pearl River Delta Region. *Journal of Geophysical Research D: Atmospheres*, **2018**, 123, 4712-4726	4.4	13
12	High-resolution sampling and analysis of ambient particulate matter in the Pearl River Delta region of southern China: source apportionment and health risk implications. *Atmospheric Chemistry and Physics*, **2018**, 18, 2049-2064	6.8	27
11	Characterization of diurnal variations of PM acidity using an open thermodynamic system: A case study of Guangzhou, China. *Chemosphere*, **2018**, 202, 677-685	8.4	8
10	Evaluate dry deposition velocity of the nitrogen oxides using Noah-MP physics ensemble simulations for the Dinghushan Forest, Southern China. *Asia-Pacific Journal of Atmospheric Sciences*, **2017**, 53, 519-536	2.1	7
9	Long-term trends of fine particulate matter and chemical composition in the Pearl River Delta Economic Zone (PRDEZ), China. *Frontiers of Environmental Science and Engineering*, **2016**, 10, 53-62	5.8	35
8	High time-resolved elemental components in fine and coarse particles in the Pearl River Delta region of Southern China: Dynamic variations and effects of meteorology. *Science of the Total Environment*, **2016**, 572, 634-648	10.2	17
7	Properties of aerosols and formation mechanisms over southern China during the monsoon season. *Atmospheric Chemistry and Physics*, **2016**, 16, 13271-13289	6.8	11
6	Numerical model to quantify biogenic volatile organic compound emissions: The Pearl River Delta region as a case study. *Journal of Environmental Sciences*, **2016**, 46, 72-82	6.4	9
5	Chemical Composition of PM2.5 and its Impact on Visibility in Guangzhou, Southern China. *Aerosol and Air Quality Research*, **2016**, 16, 2349-2361	4.6	18
4	Photochemical indicators of ozone sensitivity: application in the Pearl River Delta, China. *Frontiers of Environmental Science and Engineering*, **2016**, 10, 1	5.8	24
3	Source apportionment of PM2.5 in Guangzhou combining observation data analysis and chemical transport model simulation. *Atmospheric Environment*, **2015**, 116, 262-271	5.3	70
2	A Numeric Study of Regional Climate Change Induced by Urban Expansion in the Pearl River Delta, China. *Journal of Applied Meteorology and Climatology*, **2014**, 53, 346-362	2.7	83

1   Impact of refined land surface properties on the simulation of a heavy convective rainfall process in the Pearl River Delta region, China. *Asia-Pacific Journal of Atmospheric Sciences*, **2014**, 50, 645-655   2.1   7