Bin Zhou

List of Publications by Year
in descending order

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43 papers	1,282 citations	430874 18 h-index	361022 35 g-index
47 all docs	47 docs citations	47 times ranked	1675 citing authors

#	Article	IF	Citations
1	Characteristics and ship traffic source identification of air pollutants in China's largest port. Atmospheric Environment, 2013, 64, 277-286.	4.1	183
2	Atmospheric ammonia and its impacts on regional air quality over the megacity of Shanghai, China. Scientific Reports, 2015, 5, 15842.	3.3	165
3	Intense secondary aerosol formation due to strong atmospheric photochemical reactions in summer: observations at a rural site in eastern Yangtze River Delta of China. Science of the Total Environment, 2016, 571, 1454-1466.	8.0	109
4	Observationally constrained modeling of atmospheric oxidation capacity and photochemical reactivity in Shanghai, China. Atmospheric Chemistry and Physics, 2020, 20, 1217-1232.	4.9	71
5	Long-term observation of atmospheric nitrous acid (HONO) and its implication to local NO2 levels in Shanghai, China. Atmospheric Environment, 2013, 77, 718-724.	4.1	63
6	A study of aerosol optical properties during ozone pollution episodes in 2013 over Shanghai, China. Atmospheric Research, 2015, 153, 235-249.	4.1	53
7	Observation of NO3 radicals over Shanghai, China. Atmospheric Environment, 2013, 70, 401-409.	4.1	49
8	On the summertime air quality and related photochemical processes in the megacity Shanghai, China. Science of the Total Environment, 2017, 580, 974-983.	8.0	47
9	Study on the Traffic Air Pollution inside and outside a Road Tunnel in Shanghai, China. PLoS ONE, 2014, 9, e112195.	2.5	46
10	Observations of nitrous acid and its relative humidity dependence in Shanghai. Journal of Environmental Sciences, 2006, 18, 910-915.	6.1	36
11	Study on the daytime OH radical and implication for its relationship with fine particles over megacity of Shanghai, China. Atmospheric Environment, 2017, 154, 167-178.	4.1	33
12	Surveillance of SO₂ and NO₂ from ship emissions by MAX-DOAS measurements and the implications regarding fuel sulfur content compliance. Atmospheric Chemistry and Physics, 2019, 19, 13611-13626.	4.9	32
13	Gas-phase ammonia and PM2.5 ammonium in a busy traffic area of Nanjing, China. Environmental Science and Pollution Research, 2016, 23, 1691-1702.	5.3	31
14	Potential Effect of Halogens on Atmospheric Oxidation and Air Quality in China. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2019JD032058.	3.3	30
15	Remote sensing of NO₂ emission from the central urban area of Shanghai (China) using the mobile DOAS technique. Journal of Geophysical Research, 2012, 117, .	3.3	27
16	Aerosol vertical profile retrieved from ground-based MAX-DOAS observation and characteristic distribution during wintertime in Shanghai, China. Atmospheric Environment, 2018, 192, 193-205.	4.1	26
17	Measurements of nitrous acid (HONO) in urban area of Shanghai, China. Environmental Science and Pollution Research, 2016, 23, 5818-5829.	5.3	25
18	OMI-observed HCHO in Shanghai, China, during 2010â€“2019 and ozone sensitivity inferred by an improved HCHOâ€‰â^•â€‰NO₂ ratio. Atmospheric Chemistry and Physics, 2021, 21, 15447-15460.	4.9	24

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19	Vertically increased NO3 radical in the nocturnal boundary layer. Science of the Total Environment, 2021, 763, 142969.	8.0	20
20	Investigation of Ground-Level Ozone and High-Pollution Episodes in a Megacity of Eastern China. PLoS ONE, 2015, 10, e0131878.	2.5	18
21	Evaluation and potential improvements of WRF/CMAQ in simulating multi-levels air pollution in megacity Shanghai, China. Stochastic Environmental Research and Risk Assessment, 2017, 31, 2513-2526.	4.0	16
22	Eco-toxicological bioassay of atmospheric fine particulate matter (PM2.5) with Photobacterium Phosphoreum T3. Ecotoxicology and Environmental Safety, 2016, 133, 226-234.	6.0	15
23	Investigating the Sources of Formaldehyde and Corresponding Photochemical Indications at a Suburb Site in Shanghai From MAXâ€DOAS Measurements. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2020JD033351.	3.3	15
24	Atmospheric formaldehyde, glyoxal and their relations to ozone pollution under low- and high-NOx regimes in summertime Shanghai, China. Atmospheric Research, 2021, 258, 105635.	4.1	14
25	A review of Space-Air-Ground integrated remote sensing techniques for atmospheric monitoring. Journal of Environmental Sciences, 2023, 123, 3-14.	6.1	14
26	Measurements of NO2, SO2, O3, Benzene and Toluene Using Differential Optical Absorption Spectroscopy (DOAS) in Shanghai, China. Annali Di Chimica, 2006, 96, 365-375.	0.6	11
27	Urban atmospheric formaldehyde concentrations measured by a differential optical absorption spectroscopy method. Environmental Sciences: Processes and Impacts, 2014, 16, 291-297.	3.5	11
28	Characterization and influence of odorous gases on the working surface of a typical landfill site: A case study in a Chinese megacity. Atmospheric Environment, 2021, 262, 118628.	4.1	11
29	Association of lead and cadmium exposure with kidney stone incidence: A study on the non-occupational population in Nandan of China. Journal of Trace Elements in Medicine and Biology, 2021, 68, 126852.	3.0	11
30	OMI satellite observed formaldehyde column from 2006 to 2015 over Xishuangbanna, southwest China, and validation using ground based zenith-sky DOAS. Science of the Total Environment, 2018, 613-614, 168-175.	8.0	10
31	Verification of satellite ozone/temperature profile products and ozone effective height/temperature over Kunming, China. Science of the Total Environment, 2019, 661, 35-47.	8.0	10
32	Influence of ship direct emission on HONO sources in channel environment. Atmospheric Environment, 2020, 242, 117819.	4.1	8
33	Cause analysis of PM2.5 pollution during the COVID-19 lockdown in Nanning, China. Scientific Reports, 2021, 11, 11119.	3.3	8
34	Emissions and health risk assessment of process-based volatile organic compounds of a representative petrochemical enterprise in East China. Air Quality, Atmosphere and Health, 2022, 15, 1095-1109.	3.3	6
35	Investigation on the urban ambient isoprene and its oxidation processes. Atmospheric Environment, 2022, 270, 118870.	4.1	6
36	Correlation between atmospheric O4 and H2O absorption in visible band and its implication to dust and haze events in Shanghai, China. Atmospheric Environment, 2012, 62, 164-171.	4.1	5

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37	Comparative observation of aerosol vertical profiles in urban and suburban areas: Impacts of local and regional transport. Science of the Total Environment, 2022, 805, 150363.	8.0	5
38	MAX-DOAS observation in the midlatitude marine boundary layer: Influences of typhoon forced air mass. Journal of Environmental Sciences, 2022, 120, 63-73.	6.1	5
39	Application of temperature dependent ozone absorption cross-sections in total ozone retrieval at Kunming and Hohenpeissenberg stations. Atmospheric Environment, 2019, 215, 116890.	4.1	4
40	Clustering Analysis on Drivers of O3 Diurnal Pattern and Interactions with Nighttime NO3 and HONO. Atmosphere, 2022, 13, 351.	2.3	3
41	Study on the measurement of isoprene by differential optical absorption spectroscopy. Atmospheric Measurement Techniques, 2021, 14, 2649-2657.	3.1	2
42	Developing of DOAS in China. , 2003, , .		1
43	Aerosol Optical Radiation Properties in Kunming (the Lowâ€“Latitude Plateau of China) and Their Relationship to the Monsoon Circulation Index. Remote Sensing, 2019, 11, 2911.	4.0	1