

Bing-liang Zhuang

List of Publications by Year in descending order

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69
papers

2,195
citations

196777

29
h-index

312153

41
g-index

98
all docs

98
docs citations

98
times ranked

2576
citing authors

#	ARTICLE	IF	CITATIONS
1	Assessment of direct radiative forcing due to secondary organic aerosol over China with a regional climate model. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 67, 24634.	0.8	22
2	Impacts of aerosol-radiation feedback on local air quality during a severe haze episode in Nanjing megacity, eastern China. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 69, 1339548.	0.8	40
3	Characteristics and Source Apportionment of Size-Fractionated Particulate Matter at Ground and above the Urban Canopy (380 m) in Nanjing, China. <i>Atmosphere</i> , 2022, 13, 883.	1.0	0
4	Drivers for the poor air quality conditions in North China Plain during the COVID-19 outbreak. <i>Atmospheric Environment</i> , 2021, 246, 118103.	1.9	54
5	A new method for estimating the noise scale factor (NSF) and random errors in lidar observations. <i>Applied Physics B: Lasers and Optics</i> , 2021, 127, 1.	1.1	1
6	Surface Ozone in the Yangtze River Delta, China: A Synthesis of Basic Features, Meteorological Driving Factors, and Health Impacts. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2020JD033600.	1.2	24
7	Ozone variability induced by synoptic weather patterns in warm seasons of 2014–2018 over the Yangtze River Delta region, China. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 5847-5864.	1.9	24
8	Subseasonal characteristics and meteorological causes of surface O ₃ in different East Asian summer monsoon periods over the North China Plain during 2014–2019. <i>Atmospheric Environment</i> , 2021, 264, 118704.	1.9	8
9	Nonlinear responses of particulate nitrate to NO _x emission controls in the megalopolises of China. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 15135-15152.	1.9	24
10	Anthropogenic Effects on Cloud Condensation Nuclei Distribution and Rain Initiation in East Asia. <i>Geophysical Research Letters</i> , 2020, 47, e2019GL086184.	1.5	6
11	Importance of Bias Correction in Data Assimilation of Multiple Observations Over Eastern China Using WRF-Chem/DART. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2019JD031465.	1.2	18
12	Vertical structure and interaction of ozone and fine particulate matter in spring at Nanjing, China: The role of aerosol's radiation feedback. <i>Atmospheric Environment</i> , 2020, 222, 117162.	1.9	22
13	Systematic classification of circulation patterns and integrated analysis of their effects on different ozone pollution levels in the Yangtze River Delta Region, China. <i>Atmospheric Environment</i> , 2020, 242, 117760.	1.9	28
14	Air quality and climate change, Topic 3 of the Model Inter-Comparison Study for Asia Phase III (MICS-Asia III) – Part 2: aerosol radiative effects and aerosol feedbacks. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 1147-1161.	1.9	20
15	Effects of atmospheric aerosols on terrestrial carbon fluxes and CO ₂ concentrations in China. <i>Atmospheric Research</i> , 2020, 237, 104859.	1.8	37
16	Impact of atmospheric quasi-biweekly oscillation on the persistent heavy PM _{2.5} pollution over Beijing-Tianjin-Hebei region, China during winter. <i>Atmospheric Research</i> , 2020, 242, 105017.	1.8	22
17	Impacts of atmospheric transport and biomass burning on the inter-annual variation in black carbon aerosols over the Tibetan Plateau. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 13591-13610.	1.9	14
18	Ozone affected by a succession of four landfall typhoons in the Yangtze River Delta, China: major processes and health impacts. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 13781-13799.	1.9	21

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19	Regional Climate Responses in East Asia to the Black Carbon Aerosol Direct Effects from India and China in Summer. <i>Journal of Climate</i> , 2020, 33, 9783-9800.	1.2	9
20	The direct effects of black carbon aerosols from different source sectors in East Asia in summer. <i>Climate Dynamics</i> , 2019, 53, 5293-5310.	1.7	29
21	Spatiotemporal distribution of anthropogenic aerosols in China around 2030. <i>Theoretical and Applied Climatology</i> , 2019, 138, 2007-2020.	1.3	0
22	Numerical modeling of ozone damage to plants and its effects on atmospheric CO ₂ in China. <i>Atmospheric Environment</i> , 2019, 217, 116970.	1.9	16
23	The Characteristics of Spatial and Temporal Variations in the PBL during the Landfall of Tropical Cyclones across East China. <i>Journal of Applied Meteorology and Climatology</i> , 2019, 58, 1557-1572.	0.6	7
24	Multiconstituent Data Assimilation With WRF-Chem/DART: Potential for Adjusting Anthropogenic Emissions and Improving Air Quality Forecasts Over Eastern China. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 7393-7412.	1.2	46
25	Characteristics of ozone and particles in the near-surface atmosphere in the urban area of the Yangtze River Delta, China. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 4153-4175.	1.9	41
26	Collective impacts of biomass burning and synoptic weather on surface PM _{2.5} and CO in Northeast China. <i>Atmospheric Environment</i> , 2019, 213, 64-80.	1.9	39
27	Formation and Evolution Mechanisms for Two Extreme Haze Episodes in the Yangtze River Delta Region of China During Winter 2016. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 3607-3623.	1.2	43
28	Synoptic weather patterns and their impacts on regional particle pollution in the city cluster of the Sichuan Basin, China. <i>Atmospheric Environment</i> , 2019, 208, 34-47.	1.9	37
29	Foreign influences on tropospheric ozone over East Asia through global atmospheric transport. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 12495-12514.	1.9	16
30	Characteristics of intercontinental transport of tropospheric ozone from Africa to Asia. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 4251-4276.	1.9	24
31	Air quality and climate change, Topic 3 of the Model Inter-Comparison Study for Asia Phase III (MICS-Asia III) – Part 1: Overview and model evaluation. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 4859-4884.	1.9	69
32	The optical properties, physical properties and direct radiative forcing of urban columnar aerosols in the Yangtze River Delta, China. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 1419-1436.	1.9	22
33	Interaction between the Black Carbon Aerosol Warming Effect and East Asian Monsoon Using RegCM4. <i>Journal of Climate</i> , 2018, 31, 9367-9388.	1.2	23
34	Source Apportionment of PM _{2.5} during Haze and Non-Haze Episodes in Wuxi, China. <i>Atmosphere</i> , 2018, 9, 267.	1.0	2
35	Impact of Tropospheric Ozone on Summer Climate in China. <i>Journal of Meteorological Research</i> , 2018, 32, 279-287.	0.9	6
36	Agricultural Fire Impacts on Ozone Photochemistry Over the Yangtze River Delta Region, East China. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 6605-6623.	1.2	19

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37	Impacts of Synoptic Weather Patterns and their Persistency on Free Tropospheric Carbon Monoxide Concentrations and Outflow in Eastern China. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 7024-7046.	1.2	22
38	Modeling of a severe dust event and its impacts on ozone photochemistry over the downstream Nanjing megacity of eastern China. <i>Atmospheric Environment</i> , 2017, 160, 107-123.	1.9	25
39	Improved meteorology and ozone air quality simulations using MODIS land surface parameters in the Yangtze River Delta urban cluster, China. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 3116-3140.	1.2	31
40	Natural emissions under future climate condition and their effects on surface ozone in the Yangtze River Delta region, China. <i>Atmospheric Environment</i> , 2017, 150, 162-180.	1.9	29
41	Sensitivity of climate effects of black carbon in China to its size distributions. <i>Atmospheric Research</i> , 2017, 185, 118-130.	1.8	7
42	The Impacts of Meteorology on the Seasonal and Interannual Variabilities of Ozone Transport From North America to East Asia. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 10,612.	1.2	12
43	Mechanism of SOA formation determines magnitude of radiative effects. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 12685-12690.	3.3	42
44	Modeling of urban heat island and its impacts on thermal circulations in the Beijing-Tianjin-Hebei region, China. <i>Theoretical and Applied Climatology</i> , 2017, 128, 999-1013.	1.3	34
45	Source apportionment of size-fractionated particles during the 2013 Asian Youth Games and the 2014 Youth Olympic Games in Nanjing, China. <i>Science of the Total Environment</i> , 2017, 579, 860-870.	3.9	24
46	The surface aerosol optical properties in the urban area of Nanjing, west Yangtze River Delta, China. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 1143-1160.	1.9	34
47	Impacts of emission reduction and meteorological conditions on air quality improvement during the 2014 Youth Olympic Games in Nanjing, China. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 13457-13471.	1.9	25
48	Characterization of major natural and anthropogenic source profiles for size-fractionated PM in Yangtze River Delta. <i>Science of the Total Environment</i> , 2017, 598, 135-145.	3.9	44
49	Impact of aerosols on regional climate in southern and northern China during strong/weak East Asian summer monsoon years. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 4069-4081.	1.2	26
50	Changes in regional meteorology induced by anthropogenic heat and their impacts on air quality in South China. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 15011-15031.	1.9	47
51	Integrated studies of a regional ozone pollution synthetically affected by subtropical high and typhoon system in the Yangtze River Delta region, China. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 15801-15819.	1.9	87
52	Modeling of the anthropogenic heat flux and its effect on regional meteorology and air quality over the Yangtze River Delta region, China. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 6071-6089.	1.9	84
53	Temporal characterization and regional contribution to O ₃ and NO _x at an urban and a suburban site in Nanjing, China. <i>Science of the Total Environment</i> , 2016, 551-552, 533-545.	3.9	77
54	The interactions between anthropogenic aerosols and the East Asian summer monsoon using RegCCMS. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 5602-5621.	1.2	44

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55	Absorption coefficient of urban aerosol in Nanjing, west Yangtze River Delta, China. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 13633-13646.	1.9	29
56	Observed aerosol optical depth and angstrom exponent in urban area of Nanjing, China. <i>Atmospheric Environment</i> , 2015, 123, 350-356.	1.9	37
57	WRF/Chem modeling of the impacts of urban expansion on regional climate and air pollutants in Yangtze River Delta, China. <i>Atmospheric Environment</i> , 2015, 106, 204-214.	1.9	83
58	Characterizing a persistent Asian dust transport event: Optical properties and impact on air quality through the ground-based and satellite measurements over Nanjing, China. <i>Atmospheric Environment</i> , 2015, 115, 304-316.	1.9	32
59	Impacts of elevated-aerosol-layer and aerosol type on the correlation of AOD and particulate matter with ground-based and satellite measurements in Nanjing, southeast China. <i>Science of the Total Environment</i> , 2015, 532, 195-207.	3.9	43
60	Temporal characteristics of atmospheric CO ₂ in urban Nanjing, China. <i>Atmospheric Research</i> , 2015, 153, 437-450.	1.8	28
61	Application of photochemical indicators to evaluate ozone nonlinear chemistry and pollution control countermeasure in China. <i>Atmospheric Environment</i> , 2014, 99, 466-473.	1.9	56
62	Comparative study on long-term visibility trend and its affecting factors on both sides of the Taiwan Strait. <i>Atmospheric Research</i> , 2014, 143, 266-278.	1.8	27
63	Investigation on semi-direct and indirect climate effects of fossil fuel black carbon aerosol over China. <i>Theoretical and Applied Climatology</i> , 2013, 114, 651-672.	1.3	44
64	Eddy covariance tilt corrections over a coastal mountain area in South-east China: Significance for near-surface turbulence characteristics. <i>Advances in Atmospheric Sciences</i> , 2012, 29, 1264-1278.	1.9	3
65	Modeling tropospheric ozone formation over East China in springtime. <i>Journal of Atmospheric Chemistry</i> , 2012, 69, 303-319.	1.4	46
66	Regional modeling of secondary organic aerosol over China using WRF/Chem. <i>Journal of Aerosol Science</i> , 2012, 43, 57-73.	1.8	114
67	Investigation on the direct radiative effect of fossil fuel black-carbon aerosol over China. <i>Theoretical and Applied Climatology</i> , 2011, 104, 301-312.	1.3	39
68	Semidirect radiative forcing of internal mixed black carbon cloud droplet and its regional climatic effect over China. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	43
69	Indirect radiative forcing and climatic effect of the anthropogenic nitrate aerosol on regional climate of China. <i>Advances in Atmospheric Sciences</i> , 2009, 26, 543-552.	1.9	39