

# Zhiwei Han

## List of Publications by Year in descending order

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Version: 2024-02-01

62  
papers

1,890  
citations

201674

27  
h-index

289244

40  
g-index

65  
all docs

65  
docs citations

65  
times ranked

1909  
citing authors

#	ARTICLE	IF	CITATIONS
1	Model study of the impact of biogenic emission on regional ozone and the effectiveness of emission reduction scenarios over eastern China. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 57, 12.	1.6	21
2	Model analysis of long-term trends of aerosol concentrations and direct radiative forcings over East Asia. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 65, 20410.	1.6	17
3	Variability in the correlation between satellite-derived liquid cloud droplet effective radius and aerosol index over the northern Pacific Ocean. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 69, 1391656.	1.6	1
4	Modeling study of aerosol-meteorology feedback during winter haze events over the north China plain. <i>Atmospheric Pollution Research</i> , 2022, 13, 101311.	3.8	2
5	Investigation of the influence of mineral dust on airborne particulate matter during the COVID-19 epidemic in spring 2020 over China. <i>Atmospheric Pollution Research</i> , 2022, 13, 101424.	3.8	6
6	Secondary organic aerosol formation and source contributions over east China in summertime. <i>Environmental Pollution</i> , 2022, 306, 119383.	7.5	11
7	Future Co-Occurrences of Hot Days and Ozone-Polluted Days Over China Under Scenarios of Shared Socioeconomic Pathways Predicted Through a Machine-Learning Approach. <i>Earth's Future</i> , 2022, 10, .	6.3	6
8	Direct and indirect effects and feedbacks of biomass burning aerosols over Mainland Southeast Asia and South China in springtime. <i>Science of the Total Environment</i> , 2022, 842, 156949.	8.0	11
9	Chemical formation pathways of secondary organic aerosols in the Beijing-Tianjin-Hebei region in wintertime. <i>Atmospheric Environment</i> , 2021, 244, 117996.	4.1	22
10	Effect of source variation on the size and mixing state of black carbon aerosol in urban Beijing from 2013 to 2019: Implication on light absorption. <i>Environmental Pollution</i> , 2021, 270, 116089.	7.5	17
11	Variation in PM <sub>2.5</sub> sources in central North China Plain during 2017-2019: Response to mitigation strategies. <i>Journal of Environmental Management</i> , 2021, 288, 112370.	7.8	22
12	The formation and evolution of secondary organic aerosol during haze events in Beijing in wintertime. <i>Science of the Total Environment</i> , 2020, 703, 134937.	8.0	31
13	Aerosol radiative effects and feedbacks on boundary layer meteorology and PM <sub>2.5</sub> ; chemical components during winter haze events over the Beijing-Tianjin-Hebei region. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 8659-8690.	4.9	33
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.	4.9	20
15	Pollution severity-dependent aerosol light scattering enhanced by inorganic species formation in Beijing haze. <i>Science of the Total Environment</i> , 2020, 719, 137545.	8.0	15
16	A regional model study of the characteristics and indirect effects of marine primary organic aerosol in springtime over East Asia. <i>Atmospheric Environment</i> , 2019, 197, 22-35.	4.1	11
17	The distributions and direct radiative effects of marine aerosols over East Asia in springtime. <i>Science of the Total Environment</i> , 2019, 651, 1913-1925.	8.0	14
18	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.	4.9	69

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19	A modeling study of the influence of sea salt on inorganic aerosol concentration, size distribution, and deposition in the western Pacific Ocean. <i>Atmospheric Environment</i> , 2018, 188, 157-173.	4.1	20
20	Summertime ambient ammonia and its effects on ammonium aerosol in urban Beijing, China. <i>Science of the Total Environment</i> , 2017, 579, 1521-1530.	8.0	34
21	Roles of regional transport and heterogeneous reactions in the PM <sub>2.5</sub> increase during winter haze episodes in Beijing. <i>Science of the Total Environment</i> , 2017, 599-600, 246-253.	8.0	137
22	Investigation of hygroscopic growth effect on aerosol scattering coefficient at a rural site in the southern North China Plain. <i>Science of the Total Environment</i> , 2017, 599-600, 76-84.	8.0	29
23	Synergy between air pollution and urban meteorological changes through aerosol-radiation-diffusion feedback—A case study of Beijing in January 2013. <i>Atmospheric Environment</i> , 2017, 171, 98-110.	4.1	15
24	The impacts of urban surface characteristics on radiation balance and meteorological variables in the boundary layer around Beijing in summertime. <i>Atmospheric Research</i> , 2017, 197, 167-176.	4.1	20
25	Size distribution and source of black carbon aerosol in urban Beijing during winter haze episodes. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 7965-7975.	4.9	53
26	The Effects of Anthropogenic Heat Release on Urban Meteorology and Implication for Haze Pollution in the Beijing-Tianjin-Hebei Region. <i>Advances in Meteorology</i> , 2016, 2016, 1-11.	1.6	8
27	Seasonal Variation of Nitrate Concentration and Its Direct Radiative Forcing over East Asia. <i>Atmosphere</i> , 2016, 7, 105.	2.3	10
28	Aerosol vertical distribution over east China from RIEMS-Chem simulation in comparison with CALIPSO measurements. <i>Atmospheric Environment</i> , 2016, 143, 177-189.	4.1	37
29	A modeling study of severe winter haze events in Beijing and its neighboring regions. <i>Atmospheric Research</i> , 2016, 170, 87-97.	4.1	91
30	Modeling organic aerosols over east China using a volatility basis-set approach with aging mechanism in a regional air quality model. <i>Atmospheric Environment</i> , 2016, 124, 186-198.	4.1	53
31	Investigation of Three-Dimensional Evolution of East Asian Dust Storm by Modeling and Remote Sensing Measurements. <i>Advances in Meteorology</i> , 2015, 2015, 1-12.	1.6	1
32	Regional integrated environmental modeling system: development and application. <i>Climatic Change</i> , 2015, 129, 499-510.	3.6	15
33	Influence of aerosol hygroscopic growth parameterization on aerosol optical depth and direct radiative forcing over East Asia. <i>Atmospheric Research</i> , 2014, 140-141, 14-27.	4.1	34
34	A numerical simulation of aerosols' direct effects on tropopause height. <i>Theoretical and Applied Climatology</i> , 2013, 112, 659-671.	2.8	9
35	A study of dust radiative feedback on dust cycle and meteorology over East Asia by a coupled regional climate-chemistry-aerosol model. <i>Atmospheric Environment</i> , 2013, 68, 54-63.	4.1	50
36	A modeling study of seasonal variation of atmospheric aerosols over East Asia. <i>Advances in Atmospheric Sciences</i> , 2012, 29, 101-117.	4.3	6

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37	Investigation of direct radiative effects of aerosols in dust storm season over East Asia with an online coupled regional climate-chemistry-aerosol model. <i>Atmospheric Environment</i> , 2012, 54, 688-699.	4.1	75
38	Model study of atmospheric particulates during dust storm period in March 2010 over East Asia. <i>Atmospheric Environment</i> , 2011, 45, 3954-3964.	4.1	54
39	Simulation of aerosol direct radiative forcing with RAMS-CMAQ in East Asia. <i>Atmospheric Environment</i> , 2011, 45, 6576-6592.	4.1	39
40	Episode simulation of Asian dust storms with an air quality modeling system. <i>Advances in Atmospheric Sciences</i> , 2011, 28, 511-520.	4.3	8
41	Long-term simulations of the sulfur concentrations over the China, Japan and Korea: A model comparison study. <i>Asia-Pacific Journal of Atmospheric Sciences</i> , 2011, 47, 399-411.	2.3	13
42	Direct radiative effect of aerosols over East Asia with a Regional coupled Climate/Chemistry model. <i>Meteorologische Zeitschrift</i> , 2010, 19, 287-298.	1.0	36
43	Model analysis of aerosol optical depth distributions over East Asia. <i>Science China Earth Sciences</i> , 2010, 53, 1079-1090.	5.2	15
44	A modeling study of the impact of heterogeneous reactions on mineral aerosol surfaces on tropospheric chemistry over East Asia. <i>Particuology</i> , 2010, 8, 433-441.	3.6	32
45	Insights into an Asian dust event sweeping Beijing during April 2006: Particle chemical composition, boundary layer structure, and radiative forcing. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	12
46	Black carbon in a continental semi-arid area of Northeast China and its possible sources of fire emission. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	37
47	Sensitivity of air quality model prediction to parameterization of vertical eddy diffusivity. <i>Environmental Fluid Mechanics</i> , 2009, 9, 73-89.	1.6	7
48	Model analysis of seasonal variations in tropospheric ozone and carbon monoxide over East Asia. <i>Advances in Atmospheric Sciences</i> , 2009, 26, 312-318.	4.3	15
49	Chemical properties and origin of dust aerosols in Beijing during springtime. <i>Particuology</i> , 2009, 7, 61-67.	3.6	48
50	Continuous measurement of number concentrations and elemental composition of aerosol particles for a dust storm event in Beijing. <i>Advances in Atmospheric Sciences</i> , 2008, 25, 89-95.	4.3	38
51	Characteristics of elemental composition of PM <sub>2.5</sub> in the spring period at Tongyu in the semi-arid region of Northeast China. <i>Advances in Atmospheric Sciences</i> , 2008, 25, 922-931.	4.3	33
52	Evaluation and intercomparison of meteorological predictions by five MM5-PBL parameterizations in combination with three land-surface models. <i>Atmospheric Environment</i> , 2008, 42, 233-249.	4.1	62
53	Regional modeling of organic aerosols over China in summertime. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	71
54	Relationship between ground-based particle component and column aerosol optical property in dusty days over Beijing. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	24

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55	A regional air quality model: Evaluation and simulation of O <sub>3</sub> and relevant gaseous species in East Asia during spring 2001. <i>Environmental Modelling and Software</i> , 2007, 22, 1328-1336.	4.5	24
56	An Estimate of Biogenic Emissions of Volatile Organic Compounds during Summertime in China (7 pp). <i>Environmental Science and Pollution Research</i> , 2007, 14, 69-75.	5.3	35
57	Model study on acidifying wet deposition in East Asia during wintertime. <i>Atmospheric Environment</i> , 2006, 40, 2360-2373.	4.1	39
58	Increase in nitrate and chloride deposition in east Asia due to increased sulfate associated with the eruption of Miyakejima Volcano. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	15
59	Model study of the impact of biogenic emission on regional ozone and the effectiveness of emission reduction scenarios over eastern China. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2005, 57, 12-27.	1.6	18
60	A comparison analysis of chemical composition of aerosols in the dust and non-dust periods in Beijing. <i>Advances in Atmospheric Sciences</i> , 2004, 21, 300-305.	4.3	16
61	Model study on particle size segregation and deposition during Asian dust events in March 2002. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	128
62	Inorganic chemical composition and source signature of PM <sub>2.5</sub> in Beijing during ACE-Asia period. <i>Science Bulletin</i> , 2003, 48, 1002-1005.	1.7	45