

Zhiwei Han

List of Publications by Year in descending order

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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	Roles of regional transport and heterogeneous reactions in the PM _{2.5} increase during winter haze episodes in Beijing. <i>Science of the Total Environment</i> , 2017, 599-600, 246-253.	8.0	137
2	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
3	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
4	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
5	Regional modeling of organic aerosols over China in summertime. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	71
6	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
7	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
8	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
9	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
10	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
11	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
12	Chemical properties and origin of dust aerosols in Beijing during springtime. <i>Particology</i> , 2009, 7, 61-67.	3.6	48
13	Inorganic chemical composition and source signature of PM _{2.5} in Beijing during ACE-Asia period. <i>Science Bulletin</i> , 2003, 48, 1002-1005.	1.7	45
14	Model study on acidifying wet deposition in East Asia during wintertime. <i>Atmospheric Environment</i> , 2006, 40, 2360-2373.	4.1	39
15	Simulation of aerosol direct radiative forcing with RAMS-CMAQ in East Asia. <i>Atmospheric Environment</i> , 2011, 45, 6576-6592.	4.1	39
16	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
17	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
18	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

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19	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
20	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
21	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
22	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
23	Characteristics of elemental composition of PM _{2.5} 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
24	Aerosol radiative effects and feedbacks on boundary layer meteorology and PM _{2.5} ; 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
25	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
26	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
27	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
28	A regional air quality model: Evaluation and simulation of O ₃ and relevant gaseous species in East Asia during spring 2001. <i>Environmental Modelling and Software</i> , 2007, 22, 1328-1336.	4.5	24
29	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
30	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
31	Variation in PM _{2.5} 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
32	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
33	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
34	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
35	Air quality and climate change, Topic 3 of the Model Inter-Comparison Study for Asia Phase III (MICS-Asia III) – Part II: aerosol radiative effects and aerosol feedbacks. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 1147-1161.	4.9	20
36	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

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37	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
38	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
39	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
40	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
41	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
42	Model analysis of aerosol optical depth distributions over East Asia. <i>Science China Earth Sciences</i> , 2010, 53, 1079-1090.	5.2	15
43	Regional integrated environmental modeling system: development and application. <i>Climatic Change</i> , 2015, 129, 499-510.	3.6	15
44	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
45	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
46	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
47	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
48	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
49	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
50	Secondary organic aerosol formation and source contributions over east China in summertime. <i>Environmental Pollution</i> , 2022, 306, 119383.	7.5	11
51	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
52	Seasonal Variation of Nitrate Concentration and Its Direct Radiative Forcing over East Asia. <i>Atmosphere</i> , 2016, 7, 105.	2.3	10
53	A numerical simulation of aerosols's direct effects on tropopause height. <i>Theoretical and Applied Climatology</i> , 2013, 112, 659-671.	2.8	9
54	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

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55	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
56	Sensitivity of air quality model prediction to parameterization of vertical eddy diffusivity. <i>Environmental Fluid Mechanics</i> , 2009, 9, 73-89.	1.6	7
57	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
58	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
59	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
60	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
61	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
62	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