

Junling An

List of Publications by Year in Descending Order

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Version: 2024-04-28

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

78
papers

1,955
citations

26
h-index

42
g-index

93
ext. papers

2,553
ext. citations

5.5
avg, IF

5.01
L-index

#	Paper	IF	Citations
78	A one-year study on black carbon in urban Beijing: Concentrations, sources and implications on visibility. <i>Atmospheric Pollution Research</i> , 2022 , 13, 101307	4.5	0
77	High crop yield losses induced by potential HONO sources - A modelling study in the North China Plain. <i>Science of the Total Environment</i> , 2022 , 803, 149929	10.2	1
76	A comprehensive investigation on volatile organic compounds (VOCs) in 2018 in Beijing, China: Characteristics, sources and behaviours in response to O ₃ formation. <i>Science of the Total Environment</i> , 2022 , 806, 150247	10.2	3
75	Long-term winter observation of nitrous acid in the urban area of Beijing.. <i>Journal of Environmental Sciences</i> , 2022 , 114, 334-342	6.4	0
74	Amplified role of potential HONO sources in O ₃ formation in North China Plain during autumn haze aggravating processes. <i>Atmospheric Chemistry and Physics</i> , 2022 , 22, 3275-3302	6.8	0
73	Influence on the temperature estimation of the planetary boundary layer scheme with different minimum eddy diffusivity in WRF v3.9.1.1. <i>Geoscientific Model Development</i> , 2021 , 14, 6135-6153	6.3	1
72	Characteristics, secondary transformation, and health risk assessment of ambient volatile organic compounds (VOCs) in urban Beijing, China. <i>Atmospheric Pollution Research</i> , 2021 , 12, 33-46	4.5	10
71	Chemical characteristics, source apportionment, and regional contribution of PM _{2.5} in Zhangjiakou, Northern China: A multiple sampling sites observation and modeling perspective. <i>Environmental Advances</i> , 2021 , 3, 100034	3.5	4
70	Cable-car measurements of vertical aerosol profiles impacted by mountain-valley breezes in Lushan Mountain, East China. <i>Science of the Total Environment</i> , 2021 , 768, 144198	10.2	5
69	Global/Regional nested simulation of particle number concentration by combing microphysical processes with an evolving organic aerosol module. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 9343-9366	6.8	5
68	Evidence for Strong HONO Emission from Fertilized Agricultural Fields and its Remarkable Impact on Regional O ₃ Pollution in the Summer North China Plain. <i>ACS Earth and Space Chemistry</i> , 2021 , 5, 340-347	3.2	8
67	Characteristics, source apportionment and chemical conversions of VOCs based on a comprehensive summer observation experiment in Beijing. <i>Atmospheric Pollution Research</i> , 2021 , 12, 230-241	4.5	12
66	Satellite estimates and subpixel variability of rainfall in a semi-arid grassland. <i>Atmospheric and Oceanic Science Letters</i> , 2021 , 14, 100055	1.4	1
65	Effect of potential HONO sources on peroxyacetyl nitrate (PAN) formation in eastern China in winter. <i>Journal of Environmental Sciences</i> , 2020 , 94, 81-87	6.4	11
64	VOC characteristics, chemical reactivity and sources in urban Wuhan, central China. <i>Atmospheric Environment</i> , 2020 , 224, 117340	5.3	31
63	Elucidating the pollution characteristics of nitrate, sulfate and ammonium in PM _{2.5} in Chengdu, southwest China, based on 3-year measurements. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 11181-11199	6.8	9
62	Effect of vertical parameterization of a missing daytime source of HONO on concentrations of HONO, O ₃ and secondary organic aerosols in eastern China. <i>Atmospheric Environment</i> , 2020 , 226, 117208	5.3	3

61	Investigating the characteristics and source analyses of PM seasonal variations in Chengdu, Southwest China. <i>Chemosphere</i> , 2020 , 243, 125267	8.4	34
60	Characterization and sources of volatile organic compounds (VOCs) and their related changes during ozone pollution days in 2016 in Beijing, China. <i>Environmental Pollution</i> , 2020 , 257, 113599	9.3	63
59	HONO Budget and Its Role in Nitrate Formation in the Rural North China Plain. <i>Environmental Science & Technology</i> , 2020 , 54, 11048-11057	10.3	24
58	Aerosol optical properties under different pollution levels in the Pearl River Delta (PRD) region of China. <i>Journal of Environmental Sciences</i> , 2020 , 87, 49-59	6.4	15
57	Key role of atmospheric water content in the formation of regional haze in southern China. <i>Atmospheric Environment</i> , 2019 , 216, 116918	5.3	7
56	Summertime aerosol volatility measurements in Beijing, China. <i>Atmospheric Chemistry and Physics</i> , 2019 , 19, 10205-10216	6.8	20
55	Insights into the phenomenon of an explosive growth and sharp decline in haze: A case study in Beijing. <i>Journal of Environmental Sciences</i> , 2019 , 84, 122-132	6.4	13
54	Impacts of six potential HONO sources on HO budgets and SOA formation during a wintertime heavy haze period in the North China Plain. <i>Science of the Total Environment</i> , 2019 , 681, 110-123	10.2	26
53	Characteristics and formation mechanism of persistent extreme haze pollution events in Chengdu, southwestern China. <i>Environmental Pollution</i> , 2019 , 251, 1-12	9.3	26
52	Improving new particle formation simulation by coupling a volatility-basis set (VBS) organic aerosol module in NAQPMS+APM. <i>Atmospheric Environment</i> , 2019 , 204, 1-11	5.3	18
51	Impacts of potential HONO sources on the concentrations of oxidants and secondary organic aerosols in the Beijing-Tianjin-Hebei region of China. <i>Science of the Total Environment</i> , 2019 , 647, 836-852	10.2	41
50	Variations and sources of nitrous acid (HONO) during a severe pollution episode in Beijing in winter 2016. <i>Science of the Total Environment</i> , 2019 , 648, 253-262	10.2	42
49	Strong photochemical reactions in greenhouses after fertilization and their implications. <i>Atmospheric Environment</i> , 2019 , 214, 116821	5.3	1
48	Seasonal effects of additional HONO sources and the heterogeneous reactions of NO on nitrate in the North China Plain. <i>Science of the Total Environment</i> , 2019 , 690, 97-107	10.2	17
47	Raindrop Size Distribution Characteristics for Tropical Cyclones and Meiyu-Baiu Fronts Impacting Tokyo, Japan. <i>Atmosphere</i> , 2019 , 10, 391	2.7	11
46	Characteristics of one-year observation of VOCs, NO _x , and O ₃ at an urban site in Wuhan, China. <i>Journal of Environmental Sciences</i> , 2019 , 79, 297-310	6.4	38
45	VOC characteristics, sources and contributions to SOA formation during haze events in Wuhan, Central China. <i>Science of the Total Environment</i> , 2019 , 650, 2624-2639	10.2	92
44	Characteristics and formation mechanism of regional haze episodes in the Pearl River Delta of China. <i>Journal of Environmental Sciences</i> , 2018 , 63, 236-249	6.4	36

43	Source Apportionment and Secondary Transformation of Atmospheric Nonmethane Hydrocarbons in Chengdu, Southwest China. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018 , 123, 9741-9763	4.4	53
42	Characteristics, source apportionment and contribution of VOCs to ozone formation in Wuhan, Central China. <i>Atmospheric Environment</i> , 2018 , 192, 55-71	5.3	114
41	Nocturnal Low-level Winds and Their Impacts on Particulate Matter over the Beijing Area. <i>Advances in Atmospheric Sciences</i> , 2018 , 35, 1455-1468	2.9	13
40	Observation of nocturnal low-level wind shear and particulate matter in urban Beijing using a Doppler wind lidar. <i>Atmospheric and Oceanic Science Letters</i> , 2017 , 10, 411-417	1.4	3
39	Characteristics and source apportionment of PM during persistent extreme haze events in Chengdu, southwest China. <i>Environmental Pollution</i> , 2017 , 230, 718-729	9.3	85
38	Observation of wind shear during evening transition and an estimation of submicron aerosol concentrations in Beijing using a Doppler wind lidar. <i>Journal of Meteorological Research</i> , 2017 , 31, 350-362 ³		9
37	Local and distant source contributions to secondary organic aerosol in the Beijing urban area in summer. <i>Atmospheric Environment</i> , 2016 , 124, 176-185	5.3	27
36	An observational study on vertical raindrop size distributions during stratiform rain in a semiarid plateau climate zone. <i>Atmospheric and Oceanic Science Letters</i> , 2016 , 9, 178-184	1.4	4
35	An overview of emissions of SO ₂ and NO _x and the long-range transport of oxidized sulfur and nitrogen pollutants in East Asia. <i>Journal of Environmental Sciences</i> , 2016 , 44, 13-25	6.4	42
34	Comparison of atmospheric nitrous acid during severe haze and clean periods in Beijing, China. <i>Atmospheric Environment</i> , 2016 , 124, 199-206	5.3	67
33	Formation mechanism of continuous extreme haze episodes in the megacity Beijing, China, in January 2013. <i>Atmospheric Research</i> , 2015 , 155, 192-203	5.4	153
32	Chemical characterization of size-resolved aerosols in four seasons and hazy days in the megacity Beijing of China. <i>Journal of Environmental Sciences</i> , 2015 , 32, 155-67	6.4	33
31	Impacts of additional HONO sources on O ₃ and PM _{2.5} chemical coupling and control strategies in the Beijing-Tianjin-Hebei region of China. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2015 , 67, 23930	3.3	10
30	Impacts of Additional HONO Sources on Concentrations and Deposition of NO _y in the Beijing-Tianjin-Hebei Region of China. <i>Scientific Online Letters on the Atmosphere</i> , 2015 , 11, 36-42	2.1	5
29	Impacts of an unknown daytime HONO source on the mixing ratio and budget of HONO, and hydroxyl, hydroperoxyl, and organic peroxy radicals, in the coastal regions of China. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 9381-9398	6.8	37
28	Characteristics and formation mechanism of continuous hazes in China: a case study during the autumn of 2014 in the North China Plain. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 8165-8178	6.8	156
27	A Field Experiment on the Small-Scale Variability of Rainfall Based on a Network of Micro Rain Radars and Rain Gauges. <i>Journal of Applied Meteorology and Climatology</i> , 2015 , 54, 243-255	2.7	11
26	Effects of additional HONO sources on visibility over the North China Plain. <i>Advances in Atmospheric Sciences</i> , 2014 , 31, 1221-1232	2.9	9

25	Effects of NO _x and VOCs from five emission sources on summer surface O ₃ over the Beijing-Tianjin-Hebei region. <i>Advances in Atmospheric Sciences</i> , 2014 , 31, 787-800	2.9	22
24	Uncertainty in the uptake coefficient for HONO formation on soot and its impacts on concentrations of major chemical components in the Beijing-Tianjin-Hebei region. <i>Atmospheric Environment</i> , 2014 , 84, 163-171	5.3	13
23	Impacts of uncertainty in AVOC emissions on the summer RO _x budget and ozone production rate in the three most rapidly-developing economic growth regions of China. <i>Advances in Atmospheric Sciences</i> , 2014 , 31, 1331-1342	2.9	15
22	Relationship between aerosol transport routes and red tide occurrences in the East China Sea. <i>Environmental Earth Sciences</i> , 2013 , 69, 1499-1508	2.9	9
21	Validation of the Institute of Atmospheric Physics emergency response model with the meteorological towers measurements and SF ₆ diffusion and pool fire experiments. <i>Atmospheric Environment</i> , 2013 , 81, 60-67	5.3	3
20	Enhancements of major aerosol components due to additional HONO sources in the North China Plain and implications for visibility and haze. <i>Advances in Atmospheric Sciences</i> , 2013 , 30, 57-66	2.9	51
19	Synergistic impacts of anthropogenic and biogenic emissions on summer surface O ₃ in East Asia. <i>Journal of Environmental Sciences</i> , 2013 , 25, 520-30	6.4	8
18	Development of the RAQM2 aerosol chemical transport model and predictions of the Northeast Asian aerosol mass, size, chemistry, and mixing type. <i>Atmospheric Chemistry and Physics</i> , 2012 , 12, 11833-11856 ^{6,8,52}	6.8	52
17	Impacts of Photoexcited NO ₂ Chemistry and Heterogeneous Reactions on Concentrations of O ₃ and NO _y in Beijing, Tianjin and Hebei Province of China 2011 ,		5
16	Impacts of HONO sources on the air quality in Beijing, Tianjin and Hebei Province of China. <i>Atmospheric Environment</i> , 2011 , 45, 4735-4744	5.3	54
15	Impacts of a strong cold front on concentrations of HONO, HCHO, O ₃ , and NO ₂ in the heavy traffic urban area of Beijing. <i>Atmospheric Environment</i> , 2009 , 43, 3454-3459	5.3	30
14	Sensitivity of air quality model prediction to parameterization of vertical eddy diffusivity. <i>Environmental Fluid Mechanics</i> , 2009 , 9, 73-89	2.2	7
13	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	5.3	57
12	Influence of vertical eddy diffusivity parameterization on daily and monthly mean concentrations of O ₃ and NO _y . <i>Advances in Atmospheric Sciences</i> , 2007 , 24, 573-580	2.9	1
11	Ground observations of a strong dust storm in Beijing in March 2002. <i>Journal of Geophysical Research</i> , 2005 , 110,		29
10	Impacts of the eruption of Miyakejima Volcano on air quality over far east Asia. <i>Journal of Geophysical Research</i> , 2004 , 109, n/a-n/a		24
9	Simulated impacts of SO ₂ emissions from the Miyake volcano on concentration and deposition of sulfur oxides in September and October of 2000. <i>Atmospheric Environment</i> , 2003 , 37, 3039-3046	5.3	20
8	Simulations of monthly mean nitrate concentrations in precipitation over East Asia. <i>Atmospheric Environment</i> , 2002 , 36, 4159-4171	5.3	48

7	A Literature Review of Uncertainties in Studies of Critical Loads for Acidic Deposition. <i>Water, Air, and Soil Pollution</i> , 2001 , 130, 1205-1210	2.6	6
6	Numerical Regional Air Quality Forecast Tests over the Mainland of China. <i>Water, Air, and Soil Pollution</i> , 2001 , 130, 1781-1786	2.6	8
5	A Literature Review of Uncertainties in Studies of Critical Loads for Acidic Deposition 2001 , 1205-1210		
4	Impacts of uncertainties in base-cation deposition on the assessment of critical loads for acid deposition. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2000 , 35, 1915-1921	2.3	1
3	Long-Term Soil Acidification Model (LTSAM) Development and Application for Analyzing Soil Responses to Acidic Deposition. <i>Water, Air, and Soil Pollution</i> , 1999 , 110, 255-272	2.6	4
2	Characteristics and formation mechanism of continuous extreme hazes in China: a case study in autumn of 2014 in the North China Plain		23
1	Impacts of an unknown daytime nitrous acid source on its daytime concentration and budget, as well as those of hydroxyl, hydroperoxyl, and organic peroxy radicals, in the coastal regions of China		4