Yuepeng Pan

List of Publications by Year in descending order

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119 papers	6,441 citations	53751 45 h-index	71651 76 g-index
160 all docs	160 docs citations	160 times ranked	5308 citing authors

#	Article	IF	Citations
1	Quantifying atmospheric nitrogen deposition through a nationwide monitoring network across China. Atmospheric Chemistry and Physics, 2015, 15, 12345-12360.	1.9	324
2	Fossil Fuel Combustion-Related Emissions Dominate Atmospheric Ammonia Sources during Severe Haze Episodes: Evidence from ¹⁵N-Stable Isotope in Size-Resolved Aerosol Ammonium. Environmental Science & Technology, 2016, 50, 8049-8056.	4.6	261
3	Wet and dry deposition of atmospheric nitrogen at ten sites in Northern China. Atmospheric Chemistry and Physics, 2012, 12, 6515-6535.	1.9	230
4	Size-resolved source apportionment of particulate matter in urban Beijing during haze and non-haze episodes. Atmospheric Chemistry and Physics, 2016, 16, 1-19.	1.9	227
5	Agricultural ammonia emissions in China: reconciling bottom-up and top-down estimates. Atmospheric Chemistry and Physics, 2018, 18, 339-355.	1.9	220
6	Atmospheric wet and dry deposition of trace elements at 10 sites in Northern China. Atmospheric Chemistry and Physics, 2015, 15, 951-972.	1.9	217
7	Acid deposition in Asia: Emissions, deposition, and ecosystem effects. Atmospheric Environment, 2016, 146, 55-69.	1.9	213
8	Changes of nitrogen deposition in China from 1980 to 2018. Environment International, 2020, 144, 106022.	4.8	169
9	Size-resolved aerosol chemical analysis of extreme haze pollution events during early 2013 in urban Beijing, China. Journal of Hazardous Materials, 2014, 279, 452-460.	6.5	167
10	Analysis of heavy pollution episodes in selected cities of northern China. Atmospheric Environment, 2012, 50, 338-348.	1.9	152
11	Atmospheric nitrogen deposition to China: A model analysis on nitrogen budget and critical load exceedance. Atmospheric Environment, 2017, 153, 32-40.	1.9	152
12	Identifying Ammonia Hotspots in China Using a National Observation Network. Environmental Science & Technology, 2018, 52, 3926-3934.	4.6	146
13	An unexpected catalyst dominates formation and radiative forcing of regional haze. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 3960-3966.	3.3	132
14	Sulfate formation is dominated by manganese-catalyzed oxidation of SO2 on aerosol surfaces during haze events. Nature Communications, 2021, 12, 1993.	5.8	128
15	Chemical Method for Nitrogen Isotopic Analysis of Ammonium at Natural Abundance. Analytical Chemistry, 2014, 86, 3787-3792.	3.2	122
16	Rapid SO₂ emission reductions significantly increase tropospheric ammonia concentrations over the North China Plain. Atmospheric Chemistry and Physics, 2018, 18, 17933-17943.	1.9	121
17	The Campaign on Atmospheric Aerosol Research Network of China: CARE-China. Bulletin of the American Meteorological Society, 2015, 96, 1137-1155.	1.7	115
18	A 6-year-long (2013â€“2018) high-resolution air quality reanalysis dataset in China based on the assimilation of surface observations from CNEMC. Earth System Science Data, 2021, 13, 529-570.	3.7	109

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19	Characterization of the size-segregated water-soluble inorganic ions in the Jing-Jin-Ji urban agglomeration: Spatial/temporal variability, size distribution and sources. Atmospheric Environment, 2013, 77, 250-259.	1.9	106
20	Chemical composition and source apportionment of PM2.5 during Chinese Spring Festival at Xinxiang, a heavily polluted city in North China: Fireworks and health risks. Atmospheric Research, 2016, 182, 176-188.	1.8	102
21	Trace elements in particulate matter from metropolitan regions of Northern China: Sources, concentrations and size distributions. Science of the Total Environment, 2015, 537, 9-22.	3.9	97
22	Wet deposition of atmospheric inorganic nitrogen at five remote sites in the Tibetan Plateau. Atmospheric Chemistry and Physics, 2015, 15, 11683-11700.	1.9	95
23	Air quality improvement in a megacity: implications from 2015ÂBeijing Parade Blue pollution control actions. Atmospheric Chemistry and Physics, 2017, 17, 31-46.	1.9	91
24	Redefining the importance of nitrate during haze pollution to help optimize an emission control strategy. Atmospheric Environment, 2016, 141, 197-202.	1.9	90
25	Study on dissolved organic carbon in precipitation in Northern China. Atmospheric Environment, 2010, 44, 2350-2357.	1.9	88
26	Size-resolved aerosol trace elements at a rural mountainous site in Northern China: Importance of regional transport. Science of the Total Environment, 2013, 461-462, 761-771.	3.9	72
27	Improved Inversion of Monthly Ammonia Emissions in China Based on the Chinese Ammonia Monitoring Network and Ensemble Kalman Filter. Environmental Science & Technology, 2019, 53, 12529-12538.	4.6	72
28	Use of isotopic compositions of nitrate in TSP to identify sources and chemistry in South China Sea. Atmospheric Environment, 2015, 109, 70-78.	1.9	70
29	Spatial distribution and temporal variations of atmospheric sulfur deposition in Northern China: insights into the potential acidification risks. Atmospheric Chemistry and Physics, 2013, 13, 1675-1688.	1.9	66
30	Isotopic evidence for enhanced fossil fuel sources of aerosol ammonium in the urban atmosphere. Environmental Pollution, 2018, 238, 942-947.	3.7	65
31	Spatialâ€“temporal patterns of inorganic nitrogen air concentrations and deposition in eastern China. Atmospheric Chemistry and Physics, 2018, 18, 10931-10954.	1.9	65
32	Atmospheric Nitrogen Emission, Deposition, and Air Quality Impacts in China: an Overview. Current Pollution Reports, 2017, 3, 65-77.	3.1	61
33	Wet and dry nitrogen deposition in the central Sichuan Basin of China. Atmospheric Environment, 2016, 143, 39-50.	1.9	56
34	Size distributions and health risks of particulate trace elements in rural areas in northeastern China. Atmospheric Research, 2016, 168, 191-204.	1.8	56
35	A 15-year record (2001â€“2015) of the ratio of nitrate to non-sea-salt sulfate in precipitation over East Asia. Atmospheric Chemistry and Physics, 2018, 18, 2835-2852.	1.9	56
36	Impact of emission controls on air quality in Beijing during APEC 2014: Implications from water-soluble ions and carbonaceous aerosol in PM2.5 and their precursors. Atmospheric Environment, 2019, 210, 241-252.	1.9	56

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37	Source Apportionment of Aerosol Ammonium in an Ammoniaâ€Rich Atmosphere: An Isotopic Study of Summer Clean and Hazy Days in Urban Beijing. Journal of Geophysical Research D: Atmospheres, 2018, 123, 5681-5689.	1.2	55
38	Substantial nitrogen oxides emission reduction from China due to COVID-19 and its impact on surface ozone and aerosol pollution. Science of the Total Environment, 2021, 753, 142238.	3.9	55
39	Acid neutralization of precipitation in Northern China. Journal of the Air and Waste Management Association, 2012, 62, 204-211.	0.9	53
40	Spatial and temporal characteristics of particulate matter in Beijing, China using the Empirical Mode Decomposition method. Science of the Total Environment, 2013, 458-460, 70-80.	3.9	53
41	High efficiency of livestock ammonia emission controls in alleviating particulate nitrate during a severe winter haze episode in northern China. Atmospheric Chemistry and Physics, 2019, 19, 5605-5613.	1.9	53
42	Atmospheric nitrogen deposition to the northwestern Pacific: seasonal variation and source attribution. Atmospheric Chemistry and Physics, 2015, 15, 10905-10924.	1.9	51
43	Modifications to the azide method for nitrate isotope analysis. Rapid Communications in Mass Spectrometry, 2016, 30, 1213-1222.	0.7	51
44	Reductions of PM2.5 in Beijing-Tianjin-Hebei urban agglomerations during the 2008 Olympic Games. Advances in Atmospheric Sciences, 2012, 29, 1330-1342.	1.9	48
45	The observationâ€based relationships between PM_{2.5} and AOD over China. Journal of Geophysical Research D: Atmospheres, 2016, 121, 10,701.	1.2	47
46	Typical atmospheric haze during crop harvest season in northeastern China: A case in the Changchun region. Journal of Environmental Sciences, 2017, 54, 101-113.	3.2	47
47	Evaluation and uncertainty investigation of the NO₂, CO and NH₃ modeling over China under the framework of MICS-AsiaÂIII. Atmospheric Chemistry and Physics, 2020, 20, 181-202.	1.9	41
48	Background aerosol over the Himalayas and Tibetan Plateau: observed characteristics of aerosol mass loading. Atmospheric Chemistry and Physics, 2017, 17, 449-463.	1.9	40
49	Systematic low bias of passive samplers in characterizing nitrogen isotopic composition of atmospheric ammonia. Atmospheric Research, 2020, 243, 105018.	1.8	40
50	Calibrations of Low-Cost Air Pollution Monitoring Sensors for CO, NO2, O3, and SO2. Sensors, 2021, 21, 256.	2.1	38
51	Increased inorganic aerosol fraction contributes to air pollution and haze in China. Atmospheric Chemistry and Physics, 2019, 19, 5881-5888.	1.9	37
52	Vehicular Emissions Enhanced Ammonia Concentrations in Winter Mornings: Insights from Diurnal Nitrogen Isotopic Signatures. Environmental Science & Technology, 2022, 56, 1578-1585.	4.6	37
53	Assessment of heavy metal contamination of dustfall in northern China from integrated chemical and magnetic investigation. Atmospheric Environment, 2013, 74, 182-193.	1.9	36
54	Seasonal pattern of ammonium 15N natural abundance in precipitation at a rural forested site and implications for NH3 source partitioning. Environmental Pollution, 2019, 247, 541-549.	3.7	36

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55	Rapid formation of intense haze episodes via aerosolâ€“boundary layer feedback in Beijing. Atmospheric Chemistry and Physics, 2020, 20, 45-53.	1.9	36
56	Revisiting the Concentration Observations and Source Apportionment of Atmospheric Ammonia. Advances in Atmospheric Sciences, 2020, 37, 933-938.	1.9	36
57	PM2.5 levels, chemical composition and health risk assessment in Xinxiang, a seriously air-polluted city in North China. Environmental Geochemistry and Health, 2017, 39, 1071-1083.	1.8	34
58	Increasing importance of ammonia emission abatement in PM2.5 pollution control. Science Bulletin, 2022, 67, 1745-1749.	4.3	33
59	Nitrate Isotopic Composition in Precipitation at a Chinese Megacity: Seasonal Variations, Atmospheric Processes, and Implications for Sources. Earth and Space Science, 2019, 6, 2200-2213.	1.1	32
60	High-resolution anthropogenic ammonia emission inventory for the Yangtze River Delta, China. Chemosphere, 2020, 251, 126342.	4.2	31
61	Does high pH give a reliable assessment of the effect of alkaline soil on seed germination? A case study with Leymus chinensis (Poaceae). Plant and Soil, 2015, 394, 35-43.	1.8	30
62	Disaggregating climatic and anthropogenic influences on vegetation changes in Beijing-Tianjin-Hebei region of China. Science of the Total Environment, 2021, 786, 147574.	3.9	30
63	Liu et al. suspect that Zhu et al. (2015) may have underestimated dissolved organic nitrogen (N) but overestimated total particulate N in wet deposition in China. Science of the Total Environment, 2015, 520, 300-301.	3.9	29
64	Ion balance and acidity of size-segregated particles during haze episodes in urban Beijing. Atmospheric Research, 2018, 201, 159-167.	1.8	29
65	Revealing the Sources of Atmospheric Ammonia: a Review. Current Pollution Reports, 2018, 4, 189-197.	3.1	28
66	Multi-method determination of the below-cloud wet scavenging coefficients of aerosols in Beijing, China. Atmospheric Chemistry and Physics, 2019, 19, 15569-15581.	1.9	28
67	Reduced nitrogen dominated nitrogen deposition in the United States, but its contribution to nitrogen deposition in China decreased. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E3590-1.	3.3	27
68	Decline in bulk deposition of air pollutants in China lags behind reductions in emissions. Nature Geoscience, 2022, 15, 190-195.	5.4	27
69	Î´15N-stable isotope analysis of NHx: An overview on analytical measurements, source sampling and its source apportionment. Frontiers of Environmental Science and Engineering, 2021, 15, 126.	3.3	25
70	Spatial and seasonal variations of atmospheric sulfur concentrations and dry deposition at 16 rural and suburban sites in China. Atmospheric Environment, 2016, 146, 79-89.	1.9	24
71	Abiotic versus biotic controls on soil nitrogen cycling in drylands along a 3200â€¯km transect. Biogeosciences, 2017, 14, 989-1001.	1.3	24
72	Is fertilization the dominant source of ammonia in the urban atmosphere?. Science of the Total Environment, 2022, 838, 155890.	3.9	24

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73	Sulfate Formation Apportionment during Winter Haze Events in North China. Environmental Science & Technology, 2022, 56, 7771-7778.	4.6	24
74	Tracking ammonia morning peak, sources and transport with 1ÂHz measurements at a rural site in North China Plain. Atmospheric Environment, 2020, 235, 117630.	1.9	23
75	Model Inter-Comparison Study for Asia (MICS-Asia) phase III: multimodel comparison of reactive nitrogen deposition over China. Atmospheric Chemistry and Physics, 2020, 20, 10587-10610.	1.9	23
76	Wet deposition and scavenging ratio of air pollutants during an extreme rainstorm in the North China Plain. Atmospheric and Oceanic Science Letters, 2017, 10, 348-353.	0.5	22
77	Field Evaluation of Low-Cost Particulate Matter Sensors in Beijing. Sensors, 2020, 20, 4381.	2.1	21
78	Mitigating NOX emissions does not help alleviate wintertime particulate pollution in Beijing-Tianjin-Hebei, China. Environmental Pollution, 2021, 279, 116931.	3.7	21
79	Bias in ammonia emission inventory and implications on emission control of nitrogen oxides over North China Plain. Atmospheric Environment, 2019, 214, 116869.	1.9	20
80	Changes of ammonia concentrations in wintertime on the North China Plain from 2018 to 2020. Atmospheric Research, 2021, 253, 105490.	1.8	19
81	Responses of surface ozone air quality to anthropogenic nitrogen deposition in the Northern Hemisphere. Atmospheric Chemistry and Physics, 2017, 17, 9781-9796.	1.9	16
82	Seasonal variations in the highly time-resolved aerosol composition, sources and chemical processes of background submicron particles in the North China Plain. Atmospheric Chemistry and Physics, 2021, 21, 4521-4539.	1.9	16
83	Chemistry of new particle formation and growth events during wintertime in suburban area of Beijing: Insights from highly polluted atmosphere. Atmospheric Research, 2021, 255, 105553.	1.8	16
84	Enhanced atmospheric phosphorus deposition in Asia and Europe in the past two decades. Atmospheric and Oceanic Science Letters, 2021, 14, 100051.	0.5	16
85	Interannual variation of reactive nitrogen emissions and their impacts on PM_{2.5} air pollution in China during 2005â€“2015. Environmental Research Letters, 2021, 16, 125004.	2.2	16
86	Wet and Dry Nitrogen Depositions in the Pearl River Delta, South China: Observations at Three Typical Sites With an Emphasis on Waterâ€Soluble Organic Nitrogen. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2019JD030983.	1.2	15
87	Changes of the relationship between spring sand dust frequency and large-scale atmospheric circulation. Atmospheric Research, 2019, 226, 102-109.	1.8	14
88	Reply to Comment on â€œFossil Fuel Combustion-Related Emissions Dominate Atmospheric Ammonia Sources during Severe Haze Episodes: Evidence from ¹⁵N-Stable Isotope in Size-Resolved Aerosol Ammoniumâ€. Environmental Science & Technology, 2016, 50, 10767-10768.	4.6	13
89	Bulk Deposition and Source Apportionment of Atmospheric Heavy Metals and Metalloids in Agricultural Areas of Rural Beijing during 2016â€“2020. Atmosphere, 2021, 12, 283.	1.0	13
90	Unexpected nitrogen flow and water quality change due to varying atmospheric deposition. Journal of Hydrology, 2022, 609, 127679.	2.3	13

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91	15N natural abundance of vehicular exhaust ammonia, quantified by active sampling techniques. Atmospheric Environment, 2021, 255, 118430.	1.9	11
92	Synergistic effect of reductions in multiple gaseous precursors on secondary inorganic aerosols in winter under a meteorology-based redistributed daily NH3 emission inventory within the Beijing-Tianjin-Hebei region, China. Science of the Total Environment, 2022, 821, 153383.	3.9	10
93	Concurrent measurements of size-segregated particulate sulfate, nitrate and ammonium using quartz fiber filters, glass fiber filters and cellulose membranes. Atmospheric Environment, 2016, 145, 293-298.	1.9	9
94	Ammonia should be considered in field experiments mimicking nitrogen deposition. Atmospheric and Oceanic Science Letters, 2020, 13, 248-251.	0.5	9
95	Atmospheric reactive nitrogen concentration and deposition trends from 2011 to 2018Âat an urban site in north China. Atmospheric Environment, 2020, 224, 117298.	1.9	9
96	Changes in air pollutants during the COVID-19 lockdown in Beijing: Insights from a machine-learning technique and implications for future control policy. Atmospheric and Oceanic Science Letters, 2021, 14, 100060.	0.5	9
97	The nonlinear response of fine particulate matter pollution to ammonia emission reductions in North China. Environmental Research Letters, 0, , .	2.2	9
98	Regenerative Role of Soil Seed Banks of Different Successional Stages in A Saline-alkaline Grassland in Northeast China. Chinese Geographical Science, 2018, 28, 694-706.	1.2	7
99	Kinetic Determination of Urease Activity in Fresh Pig Feces and Slurry and the Effect on Ammonia Production at Different Conditions. Sustainability, 2019, 11, 6396.	1.6	7
100	The Forgotten Nutrientâ€"The Role of Nitrogen in Permafrost Soils of Northern China. Advances in Atmospheric Sciences, 2020, 37, 793-799.	1.9	7
101	Comparisons of the effects of different drying methods on soil nitrogen fractions: Insights into emissions of reactive nitrogen gases (HONO and NO). Atmospheric and Oceanic Science Letters, 2020, 13, 224-231.	0.5	7
102	Global and Regional Patterns of Soil Nitrous Acid Emissions and Their Acceleration of Rural Photochemical Reactions. Journal of Geophysical Research D: Atmospheres, 2022, 127, .	1.2	7
103	Size distribution and formation processes of aerosol water-soluble organic carbon during winter and summer in urban Beijing. Atmospheric Environment, 2021, 244, 117983.	1.9	6
104	Eddy covariance measurements of ozone flux above and below a southern subtropical forest canopy. Science of the Total Environment, 2021, 791, 148338.	3.9	6
105	Observations of air quality on the outskirts of an urban agglomeration during the implementation of pollution reduction measures. Atmospheric Pollution Research, 2014, 5, 789-795.	1.8	5
106	Identify the contribution of elevated industrial plume to ground air quality by optical and machine learning methods. Environmental Research Communications, 2020, 2, 021005.	0.9	5
107	Investigation of the atmospheric boundary layer during an unexpected summertime persistent severe haze pollution period in Beijing. Meteorology and Atmospheric Physics, 2020, 132, 71-84.	0.9	4
108	Comments on â€œHalf-century nitrogen deposition increase across China: A gridded time-series dataset for regional environmental assessmentsâ€•by Chaoqun Lu and Hanqin Tian. Atmospheric Environment (2014), 97:68â€“74. Atmospheric Environment, 2015, 101, 350-351.	1.9	3

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109	Letter to the editor: Critical assessments of the current state of scientific knowledge, terminology, and research needs concerning the ecological effects of elevated atmospheric nitrogen deposition in China. Atmospheric Environment, 2017, 153, 109-116.	1.9	3
110	Influence of Fog-Haze on Dew Condensation in Urban Areas. Tehnicki Vjesnik, 2018, 25, .	0.3	3
111	Rapid decline in atmospheric organic carbon deposition in rural Beijing, North China between 2016 and 2020. Atmospheric Environment, 2022, 276, 119030.	1.9	3
112	Wall losses of oxygenated volatile organic compounds from oxidation of toluene: Effects of chamber volume and relative humidity. Journal of Environmental Sciences, 2022, 114, 475-484.	3.2	2
113	Discussion of â€œAtmospheric deposition as an important nitrogen load to a typical agro-ecosystem in the Huang-Huai-Hai Plainâ€•by Huang etÂal. (2016). Atmospheric Environment, 2017, 153, 233-235.	1.9	1
114	Reshaping the size distribution of aerosol elemental carbon by removal of coarse mode carbonates. Atmospheric Environment, 2019, 214, 116852.	1.9	1
115	Toward a better understanding of cascading consequences of atmospheric reactive nitrogen along its transport pathway. Atmospheric and Oceanic Science Letters, 2020, 13, 179-181.	0.5	1
116	Quantifying the Influence of a Burn Event on Ammonia Concentrations Using a Machine-Learning Technique. Atmosphere, 2022, 13, 170.	1.0	1
117	Hazard and Benefit of a Northern River: The Amur River and the Impacts of Land Use Changes. E-journal GEO, 2010, 4, 138-144.	0.0	0
118	Contribution of Atmospheric Reactive Nitrogen to Haze Pollution in China. , 2020, , 113-134.		0
119	Chemical characteristics of freezing rain observed at Mount Heng in southern China. Atmospheric Environment, 2022, 281, 119140.	1.9	0