Kan Huang

List of Publications by Year
in descending order

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46 papers	2,196 citations	331670 21 h-index	233421 45 g-index
46 all docs	46 docs citations	46 times ranked	2554 citing authors

#	Article	IF	Citations
1	The ion chemistry, seasonal cycle, and sources of PM2.5 and TSP aerosol in Shanghai. Atmospheric Environment, 2006, 40, 2935-2952.	4.1	463
2	Mechanism of formation of the heaviest pollution episode ever recorded in the Yangtze River Delta, China. Atmospheric Environment, 2008, 42, 2023-2036.	4.1	280
3	The importance of vehicle emissions as a source of atmospheric ammonia in the megacity of Shanghai. Atmospheric Chemistry and Physics, 2016, 16, 3577-3594.	4.9	152
4	Impact assessment of biomass burning on air quality in Southeast and East Asia during BASE-ASIA. Atmospheric Environment, 2013, 78, 291-302.	4.1	151
5	Probing the severe haze pollution in three typical regions of China: Characteristics, sources and regional impacts. Atmospheric Environment, 2015, 120, 76-88.	4.1	106
6	Mixing of Asian dust with pollution aerosol and the transformation of aerosol components during the dust storm over China in spring 2007. Journal of Geophysical Research, 2010, 115, .	3.3	87
7	Tethered balloon-based black carbon profiles within the lower troposphere of Shanghai in the 2013 East China smog. Atmospheric Environment, 2015, 123, 327-338.	4.1	82
8	Russian anthropogenic black carbon: Emission reconstruction and Arctic black carbon simulation. Journal of Geophysical Research D: Atmospheres, 2015, 120, 11,306.	3.3	78
9	Asian dust over northern China and its impact on the downstream aerosol chemistry in 2004. Journal of Geophysical Research, 2010, 115, .	3.3	61
10	Source, longâ€rrange transport, and characteristics of a heavy dust pollution event in Shanghai. Journal of Geophysical Research, 2010, 115, .	3.3	58
11	Model development of dust emission and heterogeneous chemistry within the Community Multiscale Air Quality modeling system and its application over East Asia. Atmospheric Chemistry and Physics, 2016, 16, 8157-8180.	4.9	51
12	Mixing and transformation of Asian dust with pollution in the two dust storms over the northern China in 2006. Atmospheric Environment, 2010, 44, 3394-3403.	4.1	48
13	Mixing of dust with pollution on the transport path of Asian dust â€" Revealed from the aerosol over Yulin, the north edge of Loess Plateau. Science of the Total Environment, 2011, 409, 573-581.	8.0	47
14	Evolution of particulate sulfate and nitrate along the Asian dust pathway: Secondary transformation and primary pollutants via long-range transport. Atmospheric Research, 2016, 169, 86-95.	4.1	46
15	A global gas flaring black carbon emission rate dataset from 1994 to 2012. Scientific Data, 2016, 3, 160104.	5.3	43
16	Inorganic aerosols responses to emission changes in Yangtze River Delta, China. Science of the Total Environment, 2014, 481, 522-532.	8.0	39
17	Insights into the characteristics and sources of primary and secondary organic carbon: High time resolution observation in urban Shanghai. Environmental Pollution, 2018, 233, 1177-1187.	7.5	35
18	Characteristics of atmospheric mercury in a suburban area of east China: sources, formation mechanisms, and regional transport. Atmospheric Chemistry and Physics, 2019, 19, 5923-5940.	4.9	33

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19	Relation between optical and chemical properties of dust aerosol over Beijing, China. Journal of Geophysical Research, 2010, 115, .	3.3	31
20	Importance of gas-particle partitioning of ammonia in haze formation in the rural agricultural environment. Atmospheric Chemistry and Physics, 2020, 20, 7259-7269.	4.9	31
21	Environmentally dependent dust chemistry of a super Asian dust storm in March 2010: observation and simulation. Atmospheric Chemistry and Physics, 2018, 18, 3505-3521.	4.9	24
22	Role of sectoral and multi-pollutant emission control strategies in improving atmospheric visibility in the Yangtze River Delta, China. Environmental Pollution, 2014, 184, 426-434.	7.5	22
23	Vertical distribution and transport of air pollutants during a regional haze event in eastern China: A tethered mega-balloon observation study. Atmospheric Environment, 2021, 246, 118039.	4.1	21
24	Regional Climate Effects of Biomass Burning and Dust in East Asia: Evidence From Modeling and Observation. Geophysical Research Letters, 2019, 46, 11490-11499.	4.0	19
25	First Continuous Measurement of Gaseous and Particulate Formic Acid in a Suburban Area of East China: Seasonality and Gasâ€“Particle Partitioning. ACS Earth and Space Chemistry, 2020, 4, 157-167.	2.7	18
26	Characteristics of particulate-bound mercury at typical sites situated on dust transport paths in China. Science of the Total Environment, 2019, 648, 1151-1160.	8.0	14
27	Superposition of Gobi Dust and Southeast Asian Biomass Burning: The Effect of Multisource Longâ€Range Transport on Aerosol Optical Properties and Regional Meteorology Modification. Journal of Geophysical Research D: Atmospheres, 2019, 124, 9464-9483.	3.3	14
28	Vertically-resolved sources and secondary formation of fine particles: A high resolution tethered mega-balloon study over Shanghai. Science of the Total Environment, 2022, 802, 149681.	8.0	13
29	Climateâ€driven exceedance of total (wetâ€‰+â€‰dry) nitrogen (N)â€‰+â€‰sulfur (S) deposition to forest soil over the conterminous U.S. Earth's Future, 2017, 5, 560-576.	6.3	12
30	Effectiveness of SO2 emission control policy on power plants in the Yangtze River Delta, Chinaâ€”post-assessment of the 11th Five-Year Plan. Environmental Science and Pollution Research, 2017, 24, 8243-8255.	5.3	12
31	Analysis of the Co-existence of Long-range Transport Biomass Burning and Dust in the Subtropical West Pacific Region. Scientific Reports, 2018, 8, 8962.	3.3	11
32	Evaluating Recent Updated Black Carbon Emissions and Revisiting the Direct Radiative Forcing in Arctic. Geophysical Research Letters, 2019, 46, 3560-3570.	4.0	11
33	Aerosol oxalate and its implication to haze pollution in Shanghai, China. Science Bulletin, 2014, 59, 227-238.	1.7	10
34	Complex network analysis of PM2.5 transport in the Yangtze River Delta Region, China. Stochastic Environmental Research and Risk Assessment, 2021, 35, 2645-2658.	4.0	9
35	The Sources and Atmospheric Pathway of Phosphorus to a High Alpine Forest in Eastern Tibetan Plateau, China. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2019JD031327.	3.3	9
36	Characteristics and source of black carbon aerosol over Taklimakan Desert. Science China Chemistry, 2010, 53, 1202-1209.	8.2	8

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37	Impact of mixed anthropogenic and natural emissions on air quality and eco-environmentâ€”the major water-soluble components in aerosols from northwest to offshore isle. Air Quality, Atmosphere and Health, 2018, 11, 521-534.	3.3	8
38	Atmospheric Processing at the Seaâ€Land Interface Over the South China Sea: Secondary Aerosol Formation, Aerosol Acidity, and Role of Sea Salts. Journal of Geophysical Research D: Atmospheres, 2022, 127, .	3.3	7
39	Organic nitrates and other oxidized nitrogen compounds contribute significantly to the total nitrogen depositions in the United States. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E4433-4.	7.1	6
40	First long-term detection of paleo-oceanic signature of dust aerosol at the southern marginal area of the Taklimakan Desert. Scientific Reports, 2018, 8, 6779.	3.3	6
41	Airborne black carbon variations during the COVID-19 lockdown in the Yangtze River Delta megacities suggest actions to curb global warming. Environmental Chemistry Letters, 2022, 20, 71-80.	16.2	6
42	Assessing contributions of natural surface and anthropogenic emissions to atmospheric mercury in a fast-developing region of eastern China from 2015 to 2018. Atmospheric Chemistry and Physics, 2020, 20, 10985-10996.	4.9	5
43	Community Structure and Influencing Factors of Airborne Microbial Aerosols over Three Chinese Cities with Contrasting Social-Economic Levels. Atmosphere, 2020, 11, 317.	2.3	4
44	Chemical Composition and Possible Sources of Elements in Dustfall in Pingdingshan City. International Conference on Bioinformatics and Biomedical Engineering: [proceedings] International Conference on Bioinformatics and Biomedical Engineering, 2010, , .	0.0	3
45	Simulation of Spatiotemporal Trends of Gaseous Elemental Mercury in the Yangtze River Delta of Eastern China by an Artificial Neural Network. Environmental Science and Technology Letters, 2022, 9, 205-211.	8.7	2
46	Increasingly Important Role of Russian Emissions in Modulating the Arctic Climate System. Environmental Science & Technology, 2017, 51, 1951-1952.	10.0	0