Yanlin Zhang

List of Publications by Year
in descending order

121	8,812	76326 40	46799 89
papers	citations	h-index	g-index

181	181	181	7491
all docs	docs citations	times ranked	citing authors

#	ARTICLE	IF	CITATIONS
1	High secondary aerosol contribution to particulate pollution during haze events in China. Nature, 2014, 514, 218-222.	27.8	3,582
2	Fine particulate matter (PM2.5) in China at a city level. Scientific Reports, 2015, 5, 14884.	3.3	595
3	Evaluation of the absorption Ã…ngstrÃ¶m exponents for traffic and wood burning in the Aethalometer-based source apportionment using radiocarbon measurements of ambient aerosol. Atmospheric Chemistry and Physics, 2017, 17, 4229-4249.	4.9	272
4	A versatile gas interface for routine radiocarbon analysis with a gas ion source. Nuclear Instruments & Methods in Physics Research B, 2013, 294, 315-319.	1.4	163
5	Fossil vs. non-fossil sources of fine carbonaceous aerosols in four Chinese cities during the extreme winter haze episode of 2013. Atmospheric Chemistry and Physics, 2015, 15, 1299-1312.	4.9	163
6	Source Apportionment Using Radiocarbon and Organic Tracers for PM_{2.5} Carbonaceous Aerosols in Guangzhou, South China: Contrasting Local- and Regional-Scale Haze Events. Environmental Science & Technology, 2014, 48, 12002-12011.	10.0	132
7	Assessing Contributions of Agricultural and Nonagricultural Emissions to Atmospheric Ammonia in a Chinese Megacity. Environmental Science & Technology, 2019, 53, 1822-1833.	10.0	130
8	On the isolation of OC and EC and the optimal strategy of radiocarbon-based source apportionment of carbonaceous aerosols. Atmospheric Chemistry and Physics, 2012, 12, 10841-10856.	4.9	122
9	Water-Soluble Brown Carbon in Atmospheric Aerosols from Godavari (Nepal), a Regional Representative of South Asia. Environmental Science & Technology, 2019, 53, 3471-3479.	10.0	115
10	Characterization and source apportionment of organic aerosol using offline aerosol mass spectrometry. Atmospheric Measurement Techniques, 2016, 9, 23-39.	3.1	110
11	Atmospheric Volatile Organic Compounds (VOCs) in China: a Review. Current Pollution Reports, 2020, 6, 250-263.	6.6	106
12	First long-term and near real-time measurement of trace elements in China's urban atmosphere: temporal variability, source apportionment and precipitation effect. Atmospheric Chemistry and Physics, 2018, 18, 11793-11812.	4.9	102
13	Radiocarbon analysis of elemental and organic carbon in Switzerland during winter-smog episodes from 2008 to 2012 â€“ Part 1: Source apportionment and spatial variability. Atmospheric Chemistry and Physics, 2014, 14, 13551-13570.	4.9	89
14	Radiocarbon-Based Source Apportionment of Carbonaceous Aerosols at a Regional Background Site on Hainan Island, South China. Environmental Science & Technology, 2014, 48, 2651-2659.	10.0	87
15	Source Apportionment of Elemental Carbon in Beijing, China: Insights from Radiocarbon and Organic Marker Measurements. Environmental Science & Technology, 2015, 49, 8408-8415.	10.0	83
16	Diurnal cycle of fossil and nonfossil carbon using radiocarbon analyses during CalNex. Journal of Geophysical Research D: Atmospheres, 2014, 119, 6818-6835.	3.3	82
17	Seasonal light absorption properties of water-soluble brown carbon in atmospheric fine particles in Nanjing, China. Atmospheric Environment, 2018, 187, 230-240.	4.1	80
18	Characteristics of summertime ambient VOCs and their contributions to O3 and SOA formation in a suburban area of Nanjing, China. Atmospheric Research, 2020, 240, 104923.	4.1	73

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19	Chemical characteristics of dicarboxylic acids and related organic compounds in PM2.5 during biomass-burning and non-biomass-burning seasons at a rural site of Northeast China. Environmental Pollution, 2017, 231, 654-662.	7.5	72
20	Inorganic markers, carbonaceous components and stable carbon isotope from biomass burning aerosols in Northeast China. Science of the Total Environment, 2016, 572, 1244-1251.	8.0	71
21	Is it time to tackle PM2.5 air pollutions in China from biomass-burning emissions?. Environmental Pollution, 2015, 202, 217-219.	7.5	65
22	Nitrogen isotope fractionation during gas-to-particle conversion of NO_{<i>x</i>} to NO₃^{â^'} in the atmosphere â€" implications for isotope-based NO_{<i>x</i>} source apportionment. Atmospheric Chemistry and Physics, 2018, 18, 11647-11661.	4.9	65
23	Occurrence, finger printing and ecological risk assessment of polycyclic aromatic hydrocarbons (PAHs) in the Chenab River, Pakistan. Journal of Environmental Monitoring, 2011, 13, 3207.	2.1	64
24	Stable Sulfur Isotopes Revealed a Major Role of Transition-Metal Ion-Catalyzed SO₂ Oxidation in Haze Episodes. Environmental Science & Technology, 2020, 54, 2626-2634.	10.0	63
25	Assessment of carbonaceous aerosols in Shanghai, China â€" Part 1: long-term evolution, seasonal variations, and meteorological effects. Atmospheric Chemistry and Physics, 2017, 17, 9945-9964.	4.9	62
26	High Contribution of Nonfossil Sources to Submicrometer Organic Aerosols in Beijing, China. Environmental Science & Technology, 2017, 51, 7842-7852.	10.0	58
27	Source apportionments of atmospheric volatile organic compounds in Nanjing, China during high ozone pollution season. Chemosphere, 2021, 263, 128025.	8.2	57
28	High Time- and Size-Resolved Measurements of PM and Chemical Composition from Coal Combustion: Implications for the EC Formation Process. Environmental Science & Technology, 2018, 52, 6676-6685.	10.0	55
29	Temporal variation of oxidative potential of water soluble components of ambient PM2.5 measured by dithiothreitol (DTT) assay. Science of the Total Environment, 2019, 649, 969-978.	8.0	52
30	Investigating the PM2.5 mass concentration growth processes during 2013â€"2016 in Beijing and Shanghai. Chemosphere, 2019, 221, 452-463.	8.2	50
31	Large contribution of fossil fuel derived secondary organic carbon to water soluble organic aerosols in winter haze in China. Atmospheric Chemistry and Physics, 2018, 18, 4005-4017.	4.9	49
32	Development of a method for fast and automatic radiocarbon measurement of aerosol samples by online coupling of an elemental analyzer with a MICADAS AMS. Nuclear Instruments & Methods in Physics Research B, 2015, 361, 163-167.	1.4	48
33	Different formation mechanisms of PAH during wood and coal combustion under different temperatures. Atmospheric Environment, 2020, 222, 117084.	4.1	48
34	Isotope-based source apportionment of nitrogen-containing aerosols: A case study in an industrial city in China. Atmospheric Environment, 2019, 212, 96-105.	4.1	47
35	Chemical and optical properties of carbonaceous aerosols in Nanjing, eastern China: regionally transported biomass burning contribution. Atmospheric Chemistry and Physics, 2019, 19, 11213-11233.	4.9	46
36	Heterogeneous formation of particulate nitrate under ammonium-rich regimes during the high-PM_{2.5} events in Nanjing, China. Atmospheric Chemistry and Physics, 2020, 20, 3999-4011.	4.9	46

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37	Fossil and Nonfossil Sources of Organic and Elemental Carbon Aerosols in the Outflow from Northeast China. Environmental Science & Technology, 2016, 50, 6284-6292.	10.0	45
38	Specific sources of health risks caused by size-resolved PM-bound metals in a typical coal-burning city of northern China during the winter haze event. Science of the Total Environment, 2020, 734, 138651.	8.0	45
39	Factors Affecting the Occurrence and Transport of Atmospheric Organochlorines in the China Sea and the Northern Indian and South East Atlantic Oceans. Environmental Science & Technology, 2012, 46, 10012-10021.	10.0	44
40	The Use of Levoglucosan and Radiocarbon for Source Apportionment of PM_{2.5}Carbonaceous Aerosols at a Background Site in East China. Environmental Science & Technology, 2013, 47, 130904083554005.	10.0	42
41	Characterization of organic aerosols from a Chinese megacity during winter: predominance of fossil fuel combustion. Atmospheric Chemistry and Physics, 2019, 19, 5147-5164.	4.9	42
42	Specific sources of health risks induced by metallic elements in PM2.5 during the wintertime in Beijing, China. Atmospheric Environment, 2021, 246, 118112.	4.1	42
43	Stable carbon isotopic compositions of lowâ€molecularâ€weight dicarboxylic acids, oxocarboxylic acids, <i>Î±</i>â€dicarbonyls, and fatty acids: Implications for atmospheric processing of organic aerosols. Journal of Geophysical Research D: Atmospheres, 2016, 121, 3707-3717.	3.3	41
44	Changes of Emission Sources to Nitrate Aerosols in Beijing After the Clean Air Actions: Evidence From Dual Isotope Compositions. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2019JD031998.	3.3	41
45	Sizeâ€Resolved Characterization of the Chromophores in Atmospheric Particulate Matter From a Typical Coalâ€Burning City in China. Journal of Geophysical Research D: Atmospheres, 2019, 124, 10546-10563.	3.3	39
46	Fossil and Non-Fossil Sources of Different Carbonaceous Fractions in Fine and Coarse Particles by Radiocarbon Measurement. Radiocarbon, 2013, 55, 1510-1520.	1.8	36
47	Spatiotemporal variation of aerosol and potential long-range transport impact over the Tibetan Plateau, China. Atmospheric Chemistry and Physics, 2019, 19, 14637-14656.	4.9	36
48	Coal and biomass burning as major emissions of NOX in Northeast China: Implication from dual isotopes analysis of fine nitrate aerosols. Atmospheric Environment, 2020, 242, 117762.	4.1	34
49	Important Role of NO₃ Radical to Nitrate Formation Aloft in Urban Beijing: Insights from Triple Oxygen Isotopes Measured at the Tower. Environmental Science & Technology, 2022, 56, 6870-6879.	10.0	34
50	Chemical characteristics and sources of organic acids in precipitation at a semi-urban site in Southwest China. Atmospheric Environment, 2011, 45, 413-419.	4.1	33
51	Source apportionment and dynamic changes of carbonaceous aerosols during the haze bloom-decay process in China based on radiocarbon and organic molecular tracers. Atmospheric Chemistry and Physics, 2016, 16, 2985-2996.	4.9	32
52	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.	2.6	32
53	Aromatic acids as biomass-burning tracers in atmospheric aerosols and ice cores: A review. Environmental Pollution, 2019, 247, 216-228.	7.5	32
54	PBDEs in the atmosphere over the Asian marginal seas, and the Indian and Atlantic oceans. Atmospheric Environment, 2011, 45, 6622-6628.	4.1	31

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55	The importance of non-fossil sources in carbonaceous aerosols in a megacity of central China during the 2013 winter haze episode: A source apportionment constrained by radiocarbon and organic tracers. Atmospheric Environment, 2016, 144, 60-68.	4.1	29
56	Study on pollution behavior and sulfate formation during the typical haze event in Nanjing with water soluble inorganic ions and sulfur isotopes. Atmospheric Research, 2019, 217, 198-207.	4.1	29
57	Micro-scale (Î¼g) radiocarbon analysis of water-soluble organic carbon in aerosol samples. Atmospheric Environment, 2014, 97, 1-5.	4.1	27
58	Nitrogen Speciation and Isotopic Composition of Aerosols Collected at Himalayan Forest (3326 m) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 12247-12256.	10.0	27
59	Aerosol chemical component: Simulations with WRF-Chem and comparison with observations in Nanjing. Atmospheric Environment, 2019, 218, 116982.	4.1	26
60	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.	6.0	25
61	The spatial distribution and potential sources of polycyclic aromatic hydrocarbons (PAHs) over the Asian marginal seas and the Indian and Atlantic Oceans. Journal of Geophysical Research, 2012, 117, .	3.3	23
62	Intercomparison of ¹⁴C Analysis of Carbonaceous Aerosols: Exercise 2009. Radiocarbon, 2013, 55, 1496-1509.	1.8	23
63	High Abundance of Fluorescent Biological Aerosol Particles in Winter in Beijing, China. ACS Earth and Space Chemistry, 2017, 1, 493-502.	2.7	23
64	Regional haze formation enhanced the atmospheric pollution levels in the Yangtze River Delta region, China: Implications for anthropogenic sources and secondary aerosol formation. Science of the Total Environment, 2020, 728, 138013.	8.0	22
65	Sulfur isotopic fractionation and its implication: Sulfate formation in PM2.5 and coal combustion under different conditions. Atmospheric Research, 2017, 194, 142-149.	4.1	21
66	Characteristics and origins of air pollutants and carbonaceous aerosols during wintertime haze episodes at a rural site in the Yangtze River Delta, China. Atmospheric Pollution Research, 2017, 8, 900-911.	3.8	21
67	New insights into the sources and formation of carbonaceous aerosols in China: potential applications of dual-carbon isotopes. National Science Review, 2017, 4, 804-806.	9.5	21
68	Exploring the influence of two inventories on simulated air pollutants during winter over the Yangtze River Delta. Atmospheric Environment, 2019, 206, 170-182.	4.1	21
69	Roles of Sulfur Oxidation Pathways in the Variability in Stable Sulfur Isotopic Composition of Sulfate Aerosols at an Urban Site in Beijing, China. Environmental Science and Technology Letters, 2020, 7, 883-888.	8.7	21
70	High time-resolved measurement of stable carbon isotope composition in water-soluble organic aerosols: method optimization and a case study during winter haze in eastern China. Atmospheric Chemistry and Physics, 2019, 19, 11071-11087.	4.9	20
71	The EMEP Intensive Measurement Period campaign, 2008â€“2009: characterizing carbonaceous aerosol at nine rural sites in Europe. Atmospheric Chemistry and Physics, 2019, 19, 4211-4233.	4.9	20
72	Characteristics and source apportionment of non-polar organic compounds in PM2.5 from the three megacities in Yangtze River Delta region, China. Atmospheric Research, 2021, 252, 105443.	4.1	20

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73	Size-resolved exposure risk of persistent free radicals (PFRs) in atmospheric aerosols and their potential sources. Atmospheric Chemistry and Physics, 2020, 20, 14407-14417.	4.9	20
74	New directions: Need for better understanding of source and formation process of phthalic acid in aerosols as inferred from aircraft observations over China. Atmospheric Environment, 2016, 140, 147-149.	4.1	19
75	Isotopic constraints on the atmospheric sources and formation of nitrogenous species in clouds influenced by biomass burning. Atmospheric Chemistry and Physics, 2019, 19, 12221-12234.	4.9	19
76	Online coupling of pure O2 thermo-optical methods â€“ 14C AMS for source apportionment of carbonaceous aerosols. Nuclear Instruments & Methods in Physics Research B, 2015, 361, 288-293.	1.4	18
77	Optimizing isolation protocol of organic carbon and elemental carbon for 14C analysis using fine particulate samples. Atmospheric Environment, 2017, 154, 9-19.	4.1	18
78	Light absorption and emissions inventory of humic-like substances from simulated rainforest biomass burning in Southeast Asia. Environmental Pollution, 2020, 262, 114266.	7.5	18
79	Implications for biomass/coal combustion emissions and secondary formation of carbonaceous aerosols in North China. RSC Advances, 2018, 8, 38108-38117.	3.6	17
80	Molecular composition and source apportionment of fine organic aerosols in Northeast China. Atmospheric Environment, 2020, 239, 117722.	4.1	17
81	Formation Mechanisms and Source Apportionments of Airborne Nitrate Aerosols at a Himalayan-Tibetan Plateau Site: Insights from Nitrogen and Oxygen Isotopic Compositions. Environmental Science & Technology, 2021, 55, 12261-12271.	10.0	17
82	Fossil and Non-fossil Fuel Sources of Organic and Elemental Carbonaceous Aerosol in Beijing, Shanghai, and Guangzhou: Seasonal Carbon Source Variation. Aerosol and Air Quality Research, 2020, 20, 2495-2506.	2.1	16
83	Nitrogen isotope characteristics and source apportionment of atmospheric ammonium in urban cities during a haze event in Northern China Plain. Atmospheric Environment, 2022, 269, 118800.	4.1	16
84	Wet deposition of fossil and non-fossil derived particulate carbon: Insights from radiocarbon measurement. Atmospheric Environment, 2015, 115, 257-262.	4.1	15
85	Aircraft observations of water-soluble dicarboxylic acids in the aerosols over China. Atmospheric Chemistry and Physics, 2016, 16, 6407-6419.	4.9	15
86	Enhancements of airborne particulate arsenic over the subtropical free troposphere: impact of southern Asian biomass burning. Atmospheric Chemistry and Physics, 2018, 18, 13865-13879.	4.9	15
87	Substantial decreases of light absorption, concentrations and relative contributions of fossil fuel to light-absorbing carbonaceous aerosols attributed to the COVID-19 lockdown in east China. Environmental Pollution, 2021, 275, 116615.	7.5	15
88	Contribution of brown carbon to the light absorption and radiative effect of carbonaceous aerosols from biomass burning emissions in Chiang Mai, Thailand. Atmospheric Environment, 2021, 260, 118544.	4.1	15
89	A diurnal story of Î”17O($$m{NO}_{3}^{-}$$) in urban Nanjing and its implication for nitrate aerosol formation. Npj Climate and Atmospheric Science, 2022, 5, .	6.8	15
90	Measurement report: High contributions of halocarbon and aromatic compounds to atmospheric volatile organic compounds in an industrial area. Atmospheric Chemistry and Physics, 2021, 21, 18087-18099.	4.9	14

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91	Seasonal variation and sources of low molecular weight organic acids in precipitation in the rural area of Anshun. Science Bulletin, 2011, 56, 1005-1010.	1.7	13
92	Microgram-Level Radiocarbon Determination of Carbonaceous Particles in Firn and Ice Samples: Pretreatment and OC/EC Separation. Radiocarbon, 2013, 55, 383-390.	1.8	13
93	Nitrate aerosol formation and source assessment in winter at different regions in Northeast China. Atmospheric Environment, 2021, 267, 118767.	4.1	13
94	High Loadings of Water-Soluble Oxalic Acid and Related Compounds in PM2.5 Aerosols in Eastern Central India: Influence of Biomass Burning and Photochemical Processing. Aerosol and Air Quality Research, 2019, 9, 2625-2644.	2.1	13
95	Impacts of chemical degradation of levoglucosan on quantifying biomass burning contribution to carbonaceous aerosols: A case study in Northeast China. Science of the Total Environment, 2022, 819, 152007.	8.0	13
96	Light absorption and source apportionment of water soluble humic-like substances (HULIS) in PM2.5 at Nanjing, China. Environmental Research, 2022, 206, 112554.	7.5	12
97	Characterization of Secondary Organic Aerosol Tracers over Tianjin, North China during Summer to Autumn. ACS Earth and Space Chemistry, 2019, 3, 2339-2352.	2.7	11
98	Determination of Stable Nitrogen and Oxygen Isotope Ratios in Atmospheric Aerosol Nitrates. Chinese Journal of Analytical Chemistry, 2019, 47, 907-915.	1.7	11
99	Extremely high abundance of polycyclic aromatic hydrocarbons in aerosols from a typical coal-combustion rural site in China: Size distribution, source identification and cancer risk assessment. Atmospheric Research, 2021, 248, 105192.	4.1	11
100	Regional heterogeneities in the emission of airborne primary sugar compounds and biogenic secondary organic aerosols in the East Asian outflow: evidence for coal combustion as a source of levoglucosan. Atmospheric Chemistry and Physics, 2022, 22, 1373-1393.	4.9	11
101	Anthropogenic Emission Sources of Sulfate Aerosols in Hangzhou, East China: Insights from Isotope Techniques with Consideration of Fractionation Effects between Gas-to-Particle Transformations. Environmental Science & Technology, 2022, 56, 3905-3914.	10.0	11
102	Accuracy and precision of ¹⁴C-based source apportionment of organic and elemental carbon in aerosols using the Swiss_4S protocol. Atmospheric Measurement Techniques, 2015, 8, 3729-3743.	3.1	9
103	Seasonal climatology and relationship between AOD and cloud properties inferred from the MODIS over Malawi, Southeast Africa. Atmospheric Pollution Research, 2020, 11, 1933-1952.	3.8	8
104	Convergent evidence for the pervasive but limited contribution of biomass burning to atmospheric ammonia in peninsular Southeast Asia. Atmospheric Chemistry and Physics, 2021, 21, 7187-7198.	4.9	8
105	Improvement of inorganic aerosol component in PM2.5 by constraining aqueous-phase formation of sulfate in cloud with satellite retrievals: WRF-Chem simulations. Science of the Total Environment, 2022, 804, 150229.	8.0	8
106	Tightening nonfossil emissions control: A potential opportunity for PM _{2.5} mitigation in China. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E1402.	7.1	7
107	Isomerization and Degradation of Levoglucosan via the Photo-Fenton Process: Insights from Aqueous-Phase Experiments and Atmospheric Particulate Matter. Environmental Science & Technology, 2020, 54, 11789-11797.	10.0	7
108	Insight into the photochemistry of atmospheric oxalate through hourly measurements in the northern suburbs of Nanjing, China. Science of the Total Environment, 2020, 719, 137416.	8.0	7

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109	The mass-independent oxygen isotopic composition in sulfate aerosol-a useful tool to identify sulfate formation: a review. Atmospheric Research, 2021, 253, 105447.	4.1	7
110	Development of a Monitoring System for Semicontinuous Measurements of Stable Carbon Isotope Ratios in Atmospheric Carbonaceous Aerosols: Optimized Methods and Application to Field Measurements. Analytical Chemistry, 2020, 92, 14373-14382.	6.5	6
111	Determination of 17O Anomaly in Atmospheric Aerosol Nitrate. Chinese Journal of Analytical Chemistry, 2021, 49, 253-262.	1.7	5
112	Online characterization of a large but overlooked human excreta source of ammonia in China's urban atmosphere. Atmospheric Environment, 2020, 230, 117459.	4.1	4
113	Highly time-resolved characterization of carbonaceous aerosols using a two-wavelength Sunset thermalâ€“optical carbon analyzer. Atmospheric Measurement Techniques, 2021, 14, 4053-4068.	3.1	4
114	Oxygen isotope anomaly (Δ¹⁷O) in atmospheric nitrate: A review. Chinese Science Bulletin, 2019, 64, 649-662.	0.7	4
115	Decrease of atmospheric black carbon and CO2 concentrations due to COVID-19 lockdown at the Mt. Waliguan WMO/GAW baseline station in China. Environmental Research, 2022, 211, 112984.	7.5	4
116	Investigation of the Uncertainties of Simulated Optical Properties of Brown Carbon at Two Asian Sites Using a Modified Bulk Aerosol Optical Scheme of the Community Atmospheric Model Version 5.3. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2020JD033942.	3.3	3
117	Atmospheric Chemistry of Oxalate: Insight Into the Role of Relative Humidity and Aerosol Acidity From Highâ€Resolution Observation. Journal of Geophysical Research D: Atmospheres, 2022, 127, .	3.3	3
118	Development, characterization, and application of an improved online reactive oxygen species analyzer based on the Monitor for AeRosols and Gases in ambient Air (MARGA). Atmospheric Measurement Techniques, 2022, 15, 2623-2633.	3.1	3
119	Microgram-Level Radiocarbon Determination of Carbonaceous Particles in Firn and Ice Samples: Pretreatment and OC/EC Separation. Radiocarbon, 2013, 55, .	1.8	2
120	Derivatization of Levoglucosan for Compound-Specific Î´13C Analysis by Gas Chromatography/Combustion/Isotope Ratio Mass Spectrometry. International Journal of Analytical Chemistry, 2020, 2020, 1-11.	1.0	1
121	Urban Haze in the North China Plain: Obervations from NACMON. Bulletin of the American Meteorological Society, 2020, 101, 53-58.	3.3	1