Tong Zhu

List of Publications by Year
in descending order

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		6592	13727
417	23,720	79	129
papers	citations	h-index	g-index

479	479	479	19416
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Contribution of Dicofol to the Current DDT Pollution in China. Environmental Science & Technology, 2005, 39, 4385-4390.	4.6	621
2	Enhanced haze pollution by black carbon in megacities in China. Geophysical Research Letters, 2016, 43, 2873-2879.	1.5	590
3	An overview of snow photochemistry: evidence, mechanisms and impacts. Atmospheric Chemistry and Physics, 2007, 7, 4329-4373.	1.9	554
4	Systematic review of Chinese studies of short-term exposure to air pollution and daily mortality. Environment International, 2013, 54, 100-111.	4.8	413
5	A highâ€resolution ammonia emission inventory in China. Global Biogeochemical Cycles, 2012, 26, .	1.9	401
6	Environmental health in China: progress towards clean air and safe water. Lancet, The, 2010, 375, 1110-1119.	6.3	383
7	Air pollutant emissions from Chinese households: A major and underappreciated ambient pollution source. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 7756-7761.	3.3	378
8	Evaluating the climate and air quality impacts of short-lived pollutants. Atmospheric Chemistry and Physics, 2015, 15, 10529-10566.	1.9	365
9	Association Between Changes in Air Pollution Levels During the Beijing Olympics and Biomarkers of Inflammation and Thrombosis in Healthy Young Adults. JAMA - Journal of the American Medical Association, 2012, 307, 2068-78.	3.8	330
10	Highly time-resolved chemical characterization of atmospheric submicron particles during 2008 Beijing Olympic Games using an Aerodyne High-Resolution Aerosol Mass Spectrometer. Atmospheric Chemistry and Physics, 2010, 10, 8933-8945.	1.9	322
11	Organochlorine Pesticides in the Air around the Taihu Lake, China. Environmental Science & Technology, 2004, 38, 1368-1374.	4.6	317
12	Ammonia emission control in China would mitigate haze pollution and nitrogen deposition, but worsen acid rain. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 7760-7765.	3.3	308
13	â€œWhat We Breathe Impacts Our Health: Improving Understanding of the Link between Air Pollution and Healthâ€. Environmental Science & Technology, 2016, 50, 4895-4904.	4.6	294
14	High-resolution ammonia emissions inventories in China from 1980 to 2012. Atmospheric Chemistry and Physics, 2016, 16, 2043-2058.	1.9	281
15	Estimating adult mortality attributable to PM2.5 exposure in China with assimilated PM2.5 concentrations based on a ground monitoring network. Science of the Total Environment, 2016, 568, 1253-1262.	3.9	251
16	Association of selected persistent organic pollutants in the placenta with the risk of neural tube defects. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 12770-12775.	3.3	249
17	The impact of circulation patterns on regional transport pathways and air quality over Beijing and its surroundings. Atmospheric Chemistry and Physics, 2012, 12, 5031-5053.	1.9	224
18	Linking Urbanization and the Environment: Conceptual and Empirical Advances. Annual Review of Environment and Resources, 2017, 42, 215-240.	5.6	222

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19	Seasonal Variation of Chemical Species Associated With Short-Term Mortality Effects of PM2.5 in Xiâ€™an, a Central City in China. American Journal of Epidemiology, 2012, 175, 556-566.	1.6	207
20	Spatiotemporal continuous estimates of PM2.5 concentrations in China, 2000â€“2016: A machine learning method with inputs from satellites, chemical transport model, and ground observations. Environment International, 2019, 123, 345-357.	4.8	207
21	Clean Air for Megacities. Science, 2009, 326, 674-675.	6.0	206
22	Vehicle Emissions as an Important Urban Ammonia Source in the United States and China. Environmental Science & Technology, 2017, 51, 2472-2481.	4.6	202
23	Inflammatory and Oxidative Stress Responses of Healthy Young Adults to Changes in Air Quality during the Beijing Olympics. American Journal of Respiratory and Critical Care Medicine, 2012, 186, 1150-1159.	2.5	200
24	Fine particle pH during severe haze episodes in northern China. Geophysical Research Letters, 2017, 44, 5213-5221.	1.5	193
25	The roles of sulfuric acid in new particle formation and growth in the mega-city of Beijing. Atmospheric Chemistry and Physics, 2010, 10, 4953-4960.	1.9	190
26	Missing OH source in a suburban environment near Beijing: observed and modelled OH and HO₂ concentrations in summer 2006. Atmospheric Chemistry and Physics, 2013, 13, 1057-1080.	1.9	188
27	Rapid aerosol particle growth and increase of cloud condensation nucleus activity by secondary aerosol formation and condensation: A case study for regional air pollution in northeastern China. Journal of Geophysical Research, 2009, 114, .	3.3	186
28	Chemical characteristics of inorganic ammonium salts in PM_{2.5} in the atmosphere of Beijing (China). Atmospheric Chemistry and Physics, 2011, 11, 10803-10822.	1.9	182
29	Chronic exposure to air pollution particles increases the risk of obesity and metabolic syndrome: findings from a natural experiment in Beijing. FASEB Journal, 2016, 30, 2115-2122.	0.2	181
30	Atmospheric fluxes of organic N and P to the global ocean. Global Biogeochemical Cycles, 2012, 26, .	1.9	179
31	Impacts of atmospheric nutrient deposition on marine productivity: Roles of nitrogen, phosphorus, and iron. Global Biogeochemical Cycles, 2011, 25, n/a-n/a.	1.9	177
32	Acute Respiratory Inflammation in Children and Black Carbon in Ambient Air before and during the 2008 Beijing Olympics. Environmental Health Perspectives, 2011, 119, 1507-1512.	2.8	173
33	Ozone and haze pollution weakens net primary productivity in China. Atmospheric Chemistry and Physics, 2017, 17, 6073-6089.	1.9	169
34	High N₂O₅ Concentrations Observed in Urban Beijing: Implications of a Large Nitrate Formation Pathway. Environmental Science and Technology Letters, 2017, 4, 416-420.	3.9	167
35	Estimated Acute Effects of Ambient Ozone and Nitrogen Dioxide on Mortality in the Pearl River Delta of Southern China. Environmental Health Perspectives, 2012, 120, 393-398.	2.8	160
36	Use of a mobile laboratory to evaluate changes in on-road air pollutants during the Beijing 2008 Summer Olympics. Atmospheric Chemistry and Physics, 2009, 9, 8247-8263.	1.9	159

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37	Kinetics and products of the reactions of nitrate radical with monoalkenes, dialkenes, and monoterpenes. The Journal of Physical Chemistry, 1990, 94, 2413-2419.	2.9	156
38	Summertime photochemistry during CAREBeijing-2007: RO_x budgets and O₃ formation. Atmospheric Chemistry and Physics, 2012, 12, 7737-7752.	1.9	150
39	Occurrence of gas phase ammonia in the area of Beijing (China). Atmospheric Chemistry and Physics, 2010, 10, 9487-9503.	1.9	147
40	Cloud condensation nuclei (CCN) from fresh and aged air pollution in the megacity region of Beijing. Atmospheric Chemistry and Physics, 2011, 11, 11023-11039.	1.9	147
41	Rapid improvement of PM2.5 pollution and associated health benefits in China during 2013â€“2017. Science China Earth Sciences, 2019, 62, 1847-1856.	2.3	146
42	Highly time-resolved chemical characterization of atmospheric fine particles during 2010 Shanghai World Expo. Atmospheric Chemistry and Physics, 2012, 12, 4897-4907.	1.9	143
43	Polybrominated diphenyl ethers (PBDEs) and other flame retardants in the atmosphere and water from Taihu Lake, East China. Chemosphere, 2010, 80, 1207-1212.	4.2	136
44	Rapid Flu Diagnosis Using Silicon Nanowire Sensor. Nano Letters, 2012, 12, 3722-3730.	4.5	135
45	Kinetics and mechanism of heterogeneous oxidation of sulfur dioxide by ozone on surface of calcium carbonate. Atmospheric Chemistry and Physics, 2006, 6, 2453-2464.	1.9	133
46	A modeling analysis of a heavy air pollution episode occurred in Beijing. Atmospheric Chemistry and Physics, 2007, 7, 3103-3114.	1.9	130
47	Heterogeneous reactions of mineral dust aerosol: implications for tropospheric oxidation capacity. Atmospheric Chemistry and Physics, 2017, 17, 11727-11777.	1.9	129
48	Sulfate formation is dominated by manganese-catalyzed oxidation of SO2 on aerosol surfaces during haze events. Nature Communications, 2021, 12, 1993.	5.8	128
49	Enhanced formation of fine particulate nitrate at a rural site on the North China Plain in summer: The important roles of ammonia and ozone. Atmospheric Environment, 2015, 101, 294-302.	1.9	121
50	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
51	Estimating Spatiotemporal Variation in Ambient Ozone Exposure during 2013â€“2017 Using a Data-Fusion Model. Environmental Science & Technology, 2020, 54, 14877-14888.	4.6	118
52	Megacities and Large Urban Agglomerations in the Coastal Zone: Interactions Between Atmosphere, Land, and Marine Ecosystems. Ambio, 2013, 42, 13-28.	2.8	117
53	Modification of the effects of air pollutants on mortality by temperature: A systematic review and meta-analysis. Science of the Total Environment, 2017, 575, 1556-1570.	3.9	116
54	Declines in mental health associated with air pollution and temperature variability in China. Nature Communications, 2019, 10, 2165.	5.8	112

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55	The impact of power generation emissions on ambient PM2.5 pollution and human health in China and India. Environment International, 2018, 121, 250-259.	4.8	111
56	Maximum efficiency in the hydroxyl-radical-based self-cleansing of the troposphere. Nature Geoscience, 2014, 7, 559-563.	5.4	110
57	Pathways of sulfate enhancement by natural and anthropogenic mineral aerosols in China. Journal of Geophysical Research D: Atmospheres, 2014, 119, 14,165.	1.2	110
58	State of polybrominated diphenyl ethers in China: An overview. Chemosphere, 2012, 88, 769-778.	4.2	109
59	Comparisons of Ultrafine and Fine Particles in Their Associations with Biomarkers Reflecting Physiological Pathways. Environmental Science & Technology, 2014, 48, 5264-5273.	4.6	105
60	Rapid Inactivation of Biological Species in the Air using Atmospheric Pressure Nonthermal Plasma. Environmental Science & Technology, 2012, 46, 3360-3368.	4.6	104
61	Air Pollution and Autonomic and Vascular Dysfunction in Patients With Cardiovascular Disease: Interactions of Systemic Inflammation, Overweight, and Gender. American Journal of Epidemiology, 2012, 176, 117-126.	1.6	103
62	Aerosol optical properties observed during Campaign of Air Quality Research in Beijing 2006 (CAREBeijingâ€2006): Characteristic differences between the inflow and outflow of Beijing city air. Journal of Geophysical Research, 2009, 114, .	3.3	100
63	Influence of soot mixing state on aerosol light absorption and single scattering albedo during air mass aging at a polluted regional site in northeastern China. Journal of Geophysical Research, 2009, 114, .	3.3	100
64	Ethylene is Involved in Brassinosteroids Induced Alternative Respiratory Pathway in Cucumber (Cucumis sativus L.) Seedlings Response to Abiotic Stress. Frontiers in Plant Science, 2015, 6, 982.	1.7	99
65	Ethylene and hydrogen peroxide are involved in brassinosteroid-induced salt tolerance in tomato. Scientific Reports, 2016, 6, 35392.	1.6	98
66	Transport solutions for cleaner air. Science, 2016, 352, 934-936.	6.0	96
67	Introduction to the special issue â€œIn-depth study of air pollution sources and processes within Beijing and its surrounding region (APHH-Beijing)â€. Atmospheric Chemistry and Physics, 2019, 19, 7519-7546.	1.9	95
68	Dicarboxylic acids, ketocarboxylic acids, Î±â€dicarbonyls, fatty acids, and benzoic acid in urban aerosols collected during the 2006 Campaign of Air Quality Research in Beijing (CAREBeijingâ€2006). Journal of Geophysical Research, 2010, 115, .	3.3	93
69	Sources and oxidative potential of water-soluble humic-like substances (HULIS_{WS}) in fine particulate matter (PM_{2.5}) in Beijing. Atmospheric Chemistry and Physics, 2018, 18, 5607-5617.	1.9	92
70	Air quality, health, and climate implications of Chinaâ€™s synthetic natural gas development. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 4887-4892.	3.3	90
71	Effects on IL-1Î² signaling activation induced by water and organic extracts of fine particulate matter (PM2.5) inÂvitro. Environmental Pollution, 2018, 237, 592-600.	3.7	90
72	Near UV absorption spectra and photolysis products of difunctional organic nitrates: Possible importance as NO x reservoirs. Journal of Atmospheric Chemistry, 1993, 17, 353-373.	1.4	88

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73	Research on the hygroscopic properties of aerosols by measurement and modeling during CAREBeijingâ€2006. Journal of Geophysical Research, 2009, 114, .	3.3	88
74	Physicochemical characteristics and toxic effects of ozone-oxidized black carbon particles. Atmospheric Environment, 2013, 81, 68-75.	1.9	88
75	Spatial and temporal variations of aerosols around Beijing in summer 2006: Model evaluation and source apportionment. Journal of Geophysical Research, 2009, 114, .	3.3	86
76	Photoactivated Graphene Oxide to Enhance Photocatalytic Reduction of CO₂. ACS Applied Materials & Interfaces, 2020, 12, 3580-3591.	4.0	86
77	Evidence of Reactive Aromatics As a Major Source of Peroxy Acetyl Nitrate over China. Environmental Science & Technology, 2010, 44, 7017-7022.	4.6	84
78	Occurrence of atmospheric nitrous acid in the urban area of Beijing (China). Science of the Total Environment, 2013, 447, 210-224.	3.9	84
79	Atmospheric PAHs in North China: Spatial distribution and sources. Science of the Total Environment, 2016, 565, 994-1000.	3.9	83
80	Rate constants for the reactions of Br atoms with a series of alkanes, alkenes, and alkynes in the presence of O2. International Journal of Chemical Kinetics, 1989, 21, 499-517.	1.0	82
81	Observation of organochlorine pesticides in the air of the Mt. Everest region. Ecotoxicology and Environmental Safety, 2006, 63, 33-41.	2.9	82
82	Using the o,pâ€²-DDT/p,pâ€²-DDT ratio to identify DDT sources in China. Chemosphere, 2010, 81, 1033-1038.	4.2	81
83	Size-resolved measurement of the mixing state of soot in the megacity Beijing, China: diurnal cycle, aging and parameterization. Atmospheric Chemistry and Physics, 2012, 12, 4477-4491.	1.9	81
84	Kinetics and mechanisms of heterogeneous reaction of NO₂ on CaCO₃ surfaces under dry and wet conditions. Atmospheric Chemistry and Physics, 2010, 10, 463-474.	1.9	80
85	Integrating Silicon Nanowire Field Effect Transistor, Microfluidics and Air Sampling Techniques For Real-Time Monitoring Biological Aerosols. Environmental Science & Technology, 2011, 45, 7473-7480.	4.6	80
86	A quantitative assessment of source contributions to fine particulate matter (PM2.5)-bound polycyclic aromatic hydrocarbons (PAHs) and their nitrated and hydroxylated derivatives in Hong Kong. Environmental Pollution, 2016, 219, 742-749.	3.7	80
87	The roles of heterogeneous chemical processes in the formation of an air pollution complex and gray haze. Science China Chemistry, 2011, 54, 145-153.	4.2	79
88	Evidence of Aerosols as a Media for Rapid Daytime HONO Production over China. Environmental Science & Technology, 2014, 48, 14386-14391.	4.6	79
89	Investigation of the hygroscopic properties of Ca(NO₃)₂ and internally mixed Ca(NO₃)₂/CaCO<sub>3& particles by micro-Raman spectrometry. Atmospheric Chemistry and Physics, 2008, 8, 7205-7215.	1.9	78
90	Source analysis of volatile organic compounds by positive matrix factorization in urban and rural environments in Beijing. Journal of Geophysical Research, 2009, 114, .	3.3	78

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91	High Levels of Daytime Molecular Chlorine and Nitryl Chloride at a Rural Site on the North China Plain. Environmental Science & Technology, 2017, 51, 9588-9595.	4.6	78
92	Potential impacts of cold frontal passage on air quality over the Yangtze River Delta, China. Atmospheric Chemistry and Physics, 2019, 19, 3673-3685.	1.9	78
93	Commuter exposure to particulate matter and particle-bound PAHs in three transportation modes in Beijing, China. Environmental Pollution, 2015, 204, 199-206.	3.7	77
94	Improved aerosol correction for OMI tropospheric NO₂ retrieval over East Asia: constraint from CALIOP aerosol vertical profile. Atmospheric Measurement Techniques, 2019, 12, 1-21.	1.2	75
95	Measurement of atmospheric hydrogen peroxide and organic peroxides in Beijing before and during the 2008 Olympic Games: Chemical and physical factors influencing their concentrations. Journal of Geophysical Research, 2010, 115, .	3.3	74
96	Role of secondary aerosols in haze formation in summer in the Megacity Beijing. Journal of Environmental Sciences, 2015, 31, 51-60.	3.2	74
97	Characterising low-cost sensors in highly portable platforms to quantify personal exposure in diverse environments. Atmospheric Measurement Techniques, 2019, 12, 4643-4657.	1.2	74
98	Variability of submicron aerosol observed at a rural site in Beijing in the summer of 2006. Journal of Geophysical Research, 2009, 114, .	3.3	72
99	Oxidant (O₃ + NO₂) production processes and formation regimes in Beijing. Journal of Geophysical Research, 2010, 115, .	3.3	72
100	Malondialdehyde in exhaled breath condensate and urine as a biomarker of air pollution induced oxidative stress. Journal of Exposure Science and Environmental Epidemiology, 2013, 23, 322-327.	1.8	72
101	Measuring the morphology and density of internally mixed black carbon with SP2 and VTDMA: new insight into the absorption enhancement of black carbon in the atmosphere. Atmospheric Measurement Techniques, 2016, 9, 1833-1843.	1.2	71
102	Sensitivity of ozone to precursor emissions in urban Beijing with a Monte Carlo scheme. Atmospheric Environment, 2010, 44, 3833-3842.	1.9	67
103	Impact of pollution controls in Beijing on atmospheric oxygenated volatile organic compounds (OVOCs) during the 2008 Olympic Games: observation and modeling implications. Atmospheric Chemistry and Physics, 2015, 15, 3045-3062.	1.9	67
104	Dicarboxylic acids, ketocarboxylic acids, Î±-dicarbonyls, fatty acids and benzoic acid in PM_{2.5} aerosol collected during CAREBeijing-2007: an effect of traffic restriction on air quality. Atmospheric Chemistry and Physics, 2015, 15, 3111-3123.	1.9	67
105	Mitigation pathways of air pollution from residential emissions in the Beijing-Tianjin-Hebei region in China. Environment International, 2019, 125, 236-244.	4.8	66
106	Investigation of the chemical components of ambient fine particulate matter (PM2.5) associated with in vitro cellular responses to oxidative stress and inflammation. Environment International, 2020, 136, 105475.	4.8	66
107	Interactive Enhancements of Ascorbic Acid and Iron in Hydroxyl Radical Generation in Quinone Redox Cycling. Environmental Science & Technology, 2012, 46, 10302-10309.	4.6	65
108	Direct Radiative Effect by Multicomponent Aerosol over China*. Journal of Climate, 2015, 28, 3472-3495.	1.2	64

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109	Hydroxyl Radical Generation Mechanism During the Redox Cycling Process of 1,4-Naphthoquinone. Environmental Science & Technology, 2012, 46, 2935-2942.	4.6	63
110	Performance of an Aerodyne Aerosol Mass Spectrometer (AMS) during Intensive Campaigns in China in the Summer of 2006. Aerosol Science and Technology, 2009, 43, 189-204.	1.5	62
111	Nrf2 protects against diverse PM2.5 components-induced mitochondrial oxidative damage in lung cells. Science of the Total Environment, 2019, 669, 303-313.	3.9	62
112	Distribution and cycling of dimethylsulfide (DMS) and dimethylsulfoniopropionate (DMSP) in the sea-surface microlayer of the Yellow Sea, China, in spring. Continental Shelf Research, 2008, 28, 2417-2427.	0.9	61
113	Exposure to typical persistent organic pollutants from an electronic waste recycling site in Northern China. Chemosphere, 2013, 91, 205-211.	4.2	61
114	The use of vacuum ultraviolet irradiation to oxidize SO2 and NOx for simultaneous desulfurization and denitrification. Journal of Hazardous Materials, 2014, 271, 89-97.	6.5	61
115	Measurement of NO_y during Campaign of Air Quality Research in Beijing 2006 (CAREBeijingâ€2006): Implications for the ozone production efficiency of NO_x. Journal of Geophysical Research, 2009, 114, .	3.3	60
116	Measurements of gaseous H₂SO₄ by AP-ID-CIMS during CAREBeijing 2008 Campaign. Atmospheric Chemistry and Physics, 2011, 11, 7755-7765.	1.9	60
117	Airborne nitro-PAHs induce Nrf2/ARE defense system against oxidative stress and promote inflammatory process by activating PI3K/Akt pathway in A549 cells. Toxicology in Vitro, 2017, 44, 66-73.	1.1	60
118	Air stagnation in China (1985â€“2014): climatological mean features and trends. Atmospheric Chemistry and Physics, 2017, 17, 7793-7805.	1.9	59
119	The role of meteorological conditions and pollution control strategies in reducing air pollution in Beijing during APEC 2014 and Victory Parade 2015. Atmospheric Chemistry and Physics, 2017, 17, 13921-13940.	1.9	57
120	Photochemical production of ozone in Beijing during the 2008 Olympic Games. Atmospheric Chemistry and Physics, 2011, 11, 9825-9837.	1.9	56
121	SO₂ Uptake on Oleic Acid: A New Formation Pathway of Organosulfur Compounds in the Atmosphere. Environmental Science and Technology Letters, 2016, 3, 67-72.	3.9	56
122	Relaxed Eddy-Accumulation Technique for Measuring Ammonia Volatilization. Environmental Science & Technology, 2000, 34, 199-203.	4.6	55
123	Airâ€“Water Gas Exchange of Organochlorine Pesticides in Taihu Lake, China. Environmental Science & Technology, 2008, 42, 1928-1932.	4.6	54
124	Potentially Important Contribution of Gas-Phase Oxidation of Naphthalene and Methylnaphthalene to Secondary Organic Aerosol during Haze Events in Beijing. Environmental Science & Technology, 2019, 53, 1235-1244.	4.6	54
125	Cardiorespiratory biomarker responses in healthy young adults to drastic air quality changes surrounding the 2008 Beijing Olympics. Research Report (health Effects Institute), 2013, , 5-174.	1.6	54
126	Daytime HONO formation in the suburban area of the megacity Beijing, China. Science China Chemistry, 2014, 57, 1032-1042.	4.2	53

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127	Temperature inversions in severe polluted days derived from radiosonde data in North China from 2011 to 2016. Science of the Total Environment, 2019, 647, 1011-1020.	3.9	53
128	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
129	Development of an Automated Electrostatic Sampler (AES) for Bioaerosol Detection. Aerosol Science and Technology, 2011, 45, 1154-1160.	1.5	52
130	Multiphase oxidation of SO₂ by NO₂ on CaCO₃ particles. Atmospheric Chemistry and Physics, 2018, 18, 2481-2493.	1.9	52
131	Climatological study of the Boundary-layer air Stagnation Index for China and its relationship with air pollution. Atmospheric Chemistry and Physics, 2018, 18, 7573-7593.	1.9	52
132	Transition in air pollution, disease burden and health cost in China: A comparative study of long-term and short-term exposure. Environmental Pollution, 2021, 277, 116770.	3.7	52
133	Association between size-segregated particles in ambient air and acute respiratory inflammation. Science of the Total Environment, 2016, 565, 412-419.	3.9	51
134	Urinary Metabolites of Polycyclic Aromatic Hydrocarbons and the Association with Lipid Peroxidation: A Biomarker-Based Study between Los Angeles and Beijing. Environmental Science & Technology, 2016, 50, 3738-3745.	4.6	51
135	Oxidative Potential by PM_{2.5} in the North China Plain: Generation of Hydroxyl Radical. Environmental Science & Technology, 2019, 53, 512-520.	4.6	51
136	Sensitivity of predicted pollutant levels to urbanization in China. Atmospheric Environment, 2012, 60, 544-554.	1.9	50
137	Association Between Changes in Exposure to Air Pollution and Biomarkers of Oxidative Stress in Children Before and During the Beijing Olympics. American Journal of Epidemiology, 2015, 181, 575-583.	1.6	50
138	Pro-Oxidative and Proinflammatory Effects After Traveling From Los Angeles to Beijing. Circulation, 2019, 140, 1995-2004.	1.6	50
139	Kinetic Study of the Gas-Phase Reactions of OH and NO3Radicals and O3with Selected Vinyl Ethers. Journal of Physical Chemistry A, 2006, 110, 7386-7392.	1.1	48
140	Improving mesoscale modeling using satelliteâ€derived land surface parameters in the Pearl River Delta region, China. Journal of Geophysical Research D: Atmospheres, 2014, 119, 6325-6346.	1.2	48
141	Hydrophobic Organic Components of Ambient Fine Particulate Matter (PM_{2.5}) Associated with Inflammatory Cellular Response. Environmental Science & Technology, 2019, 53, 10479-10486.	4.6	48
142	FTIR spectroscopic study of the reaction of trifluoromethoxy radical with nitric oxide: evidence for CF3O + NO .fwdarw. CF2O + FNO. The Journal of Physical Chemistry, 1992, 96, 6115-6117.	2.9	47
143	Heterogeneous reaction of SO2 on TiO2 particles. Science China Chemistry, 2010, 53, 2637-2643.	4.2	47
144	Characteristics of carbonaceous aerosols: Impact of biomass burning and secondary formation in summertime in a rural area of the North China Plain. Science of the Total Environment, 2016, 557-558, 520-530.	3.9	46

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145	Seasonal variations in fine particle composition from Beijing prompt oxidative stress response in mouse lung and liver. Science of the Total Environment, 2018, 626, 147-155.	3.9	46
146	The effects of facemasks on airway inflammation and endothelial dysfunction in healthy young adults: a double-blind, randomized, controlled crossover study. Particle and Fibre Toxicology, 2018, 15, 30.	2.8	46
147	Association between pregnancy loss and ambient PM2Â·5 using survey data in Africa: a longitudinal case-control study, 1998â€“2016. Lancet Planetary Health, The, 2019, 3, e219-ee225.	5.1	46
148	Nitric oxide is involved in brassinosteroidâ€induced alternative respiratory pathway in Nicotiana benthamiana seedlings' response to salt stress. Physiologia Plantarum, 2016, 156, 150-163.	2.6	45
149	Change in the number of PM2.5-attributed deaths in China from 2000 to 2010: Comparison between estimations from census-based epidemiology and pre-established exposure-response functions. Environment International, 2019, 129, 430-437.	4.8	44
150	Estimation of pregnancy losses attributable to exposure to ambient fine particles in south Asia: an epidemiological case-control study. Lancet Planetary Health, The, 2021, 5, e15-e24.	5.1	44
151	Downward transport of ozone-rich air near Mt. Everest. Geophysical Research Letters, 2006, 33, .	1.5	43
152	Heterogeneous oxidation of sulfur dioxide by ozone on the surface of sodium chloride and its mixtures with other components. Journal of Geophysical Research, 2007, 112, .	3.3	43
153	Mixing state of nonvolatile aerosol particle fractions and comparison with light absorption in the polluted Beijing region. Journal of Geophysical Research, 2009, 114, .	3.3	43
154	Impacts of anthropogenic SO_x, NO_xand NH₃on acidification of coastal waters and shipping lanes. Geophysical Research Letters, 2011, 38, n/a-n/a.	1.5	43
155	Harvest season, high polluted season in East China. Environmental Research Letters, 2012, 7, 044033.	2.2	43
156	Measurement of inflammation and oxidative stress following drastic changes in air pollution during the Beijing Olympics: a panel study approach. Annals of the New York Academy of Sciences, 2010, 1203, 160-167.	1.8	42
157	Size-fractioned ultrafine particles and black carbon associated with autonomic dysfunction in subjects with diabetes or impaired glucose tolerance in Shanghai, China. Particle and Fibre Toxicology, 2015, 12, 8.	2.8	42
158	Nighttime observation and chemistry of HO_x in the Pearl River Delta and Beijing in summer 2006. Atmospheric Chemistry and Physics, 2014, 14, 4979-4999.	1.9	40
159	Long path ftir spectroscopic study of the reactions of CF₃O radicals with ethane and propane. Geophysical Research Letters, 1992, 19, 2215-2218.	1.5	39
160	Herbicides volatilization measured by the relaxed eddy-accumulation technique using two trapping media. Agricultural and Forest Meteorology, 1995, 76, 201-220.	1.9	39
161	The Cardiopulmonary Effects of Ambient Air Pollution and Mechanistic Pathways: A Comparative Hierarchical Pathway Analysis. PLoS ONE, 2014, 9, e114913.	1.1	39
162	Characterization of isoprene-derived secondary organic aerosols at a rural site in North China Plain with implications for anthropogenic pollution effects. Scientific Reports, 2018, 8, 535.	1.6	39

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163	Relative humidity and O₃ concentration as two prerequisites for sulfate formation. Atmospheric Chemistry and Physics, 2019, 19, 12295-12307.	1.9	39
164	Marine aerosol size distributions in the springtime over China adjacent seas. Atmospheric Environment, 2007, 41, 6784-6796.	1.9	38
165	Using a mobile laboratory to characterize the distribution and transport of sulfur dioxide in and around Beijing. Atmospheric Chemistry and Physics, 2011, 11, 11631-11645.	1.9	38
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