

Xu Xiao-Bin

List of Publications by Year in descending order

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84
papers

6,277
citations

76294

40
h-index

71651

76
g-index

108
all docs

108
docs citations

108
times ranked

6134
citing authors

#	ARTICLE	IF	CITATIONS
1	Severe Surface Ozone Pollution in China: A Global Perspective. <i>Environmental Science and Technology Letters</i> , 2018, 5, 487-494.	3.9	570
2	Amplified ozone pollution in cities during the COVID-19 lockdown. <i>Science of the Total Environment</i> , 2020, 735, 139542.	3.9	516
3	Significant increase of surface ozone at a rural site, north of eastern China. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 3969-3977.	1.9	259
4	Long-term trend of surface ozone at a regional background station in eastern China 1991â€“2006: enhanced variability. <i>Atmospheric Chemistry and Physics</i> , 2008, 8, 2595-2607.	1.9	224
5	Characteristics of pollutants and their correlation to meteorological conditions at a suburban site in the North China Plain. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 4353-4369.	1.9	219
6	Tropospheric Ozone Assessment Report: Present-day tropospheric ozone distribution and trends relevant to vegetation. <i>Elementa</i> , 2018, 6, .	1.1	212
7	Tropospheric ozone assessment report: Global ozone metrics for climate change, human health, and crop/ecosystem research. <i>Elementa</i> , 2018, 6, 1.	1.1	196
8	Unravelling the composition of very complex samples by comprehensive gas chromatography coupled to time-of-flight mass spectrometry. <i>Journal of Chromatography A</i> , 2002, 974, 169-184.	1.8	193
9	Contributions of pollutants from North China Plain to surface ozone at the Shangdianzi GAW Station. <i>Atmospheric Chemistry and Physics</i> , 2008, 8, 5889-5898.	1.9	179
10	Tropospheric Ozone Assessment Report: Database and metrics data of global surface ozone observations. <i>Elementa</i> , 2017, 5, .	1.1	172
11	Tropospheric Ozone Assessment Report: Present-day ozone distribution and trends relevant to human health. <i>Elementa</i> , 2018, 6, .	1.1	167
12	Global and regional trends of atmospheric sulfur. <i>Scientific Reports</i> , 2019, 9, 953.	1.6	166
13	A review of atmospheric chemistry research in China: Photochemical smog, haze pollution, and gas-aerosol interactions. <i>Advances in Atmospheric Sciences</i> , 2012, 29, 1006-1026.	1.9	144
14	Impact of the Loess Plateau on the atmospheric boundary layer structure and air quality in the North China Plain: A case study. <i>Science of the Total Environment</i> , 2014, 499, 228-237.	3.9	136
15	Measurements of organic species in air and seawater from the tropical Atlantic. <i>Geophysical Research Letters</i> , 2004, 31, .	1.5	126
16	Measurements of ozone and its precursors in Beijing during summertime: impact of urban plumes on ozone pollution in downwind rural areas. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 12241-12252.	1.9	120
17	Gaseous pollutants in Beijing urban area during the heating period 2007â€“2008: variability, sources, meteorological, and chemical impacts. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 8157-8170.	1.9	117
18	VOC reactivity and its effect on ozone production during the HaChi summer campaign. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 4657-4667.	1.9	111

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19	Comprehensive two-dimensional gas chromatography (GC-MS) measurements of volatile organic compounds in the atmosphere. <i>Atmospheric Chemistry and Physics</i> , 2003, 3, 665-682.	1.9	106
20	Long-term trends of surface ozone and its influencing factors at the Mt Waliguan GAW station, China – Part 1: Overall trends and characteristics. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 6191-6205.	1.9	104
21	Role of ambient ammonia in particulate ammonium formation at a rural site in the North China Plain. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 167-184.	1.9	99
22	Possible heterogeneous chemistry of hydroxymethanesulfonate (HMS) in northern China winter haze. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 1357-1371.	1.9	97
23	Ambient sulfur dioxide, nitrogen dioxide, and ammonia at ten background and rural sites in China during 2007–2008. <i>Atmospheric Environment</i> , 2010, 44, 2625-2631.	1.9	92
24	Characteristics of trace gaseous pollutants at a regional background station in Northern China. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 927-936.	1.9	83
25	Responses of human health and vegetation exposure metrics to changes in ozone concentration distributions in the European Union, United States, and China. <i>Atmospheric Environment</i> , 2017, 152, 123-145.	1.9	82
26	Darkening of the mid-Himalaya glaciers since 2000 and the potential causes. <i>Environmental Research Letters</i> , 2012, 7, 014021.	2.2	81
27	Vertical distributions of SO ₂ and NO ₂ in the lower atmosphere in Beijing urban areas, China. <i>Science of the Total Environment</i> , 2008, 390, 456-465.	3.9	80
28	Trends of the precipitation acidity over China during 1992–2006. <i>Science Bulletin</i> , 2010, 55, 1800-1807.	1.7	77
29	Carbonyl sulfide (COS) as a tracer for canopy photosynthesis, transpiration and stomatal conductance: potential and limitations. <i>Plant, Cell and Environment</i> , 2012, 35, 657-667.	2.8	74
30	Vertical profiles of black carbon measured by a micro-aethalometer in summer in the North China Plain. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 10441-10454.	1.9	72
31	Characteristics and recent trends of sulfur dioxide at urban, rural, and background sites in North China: Effectiveness of control measures. <i>Journal of Environmental Sciences</i> , 2012, 24, 34-49.	3.2	65
32	Characteristics of gaseous pollutants at Gucheng, a rural site southwest of Beijing. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	61
33	Ozone production in summer in the megacities of Tianjin and Shanghai, China: a comparative study. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 7531-7542.	1.9	58
34	Long-term trends of surface ozone and its influencing factors at the Mt Waliguan GAW station, China – Part 2: The roles of anthropogenic emissions and climate variability. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 773-798.	1.9	56
35	Multi-decadal surface ozone trends at globally distributed remote locations. <i>Elementa</i> , 2020, 8, .	1.1	54
36	Widespread Albedo Decreasing and Induced Melting of Himalayan Snow and Ice in the Early 21st Century. <i>PLoS ONE</i> , 2015, 10, e0126235.	1.1	53

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37	Surface gas pollutants in Lhasa, a highland city of Tibet – current levels and pollution implications. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 10721-10730.	1.9	52
38	Air pollution over the North China Plain and its implication of regional transport: A new sight from the observed evidences. <i>Environmental Pollution</i> , 2018, 234, 29-38.	3.7	49
39	Long-term changes of regional ozone in China: implications for human health and ecosystem impacts. <i>Elementa</i> , 2020, 8, .	1.1	48
40	Role of Ammonia on the Feedback Between AWC and Inorganic Aerosol Formation During Heavy Pollution in the North China Plain. <i>Earth and Space Science</i> , 2019, 6, 1675-1693.	1.1	44
41	Influence of air mass downward transport on the variability of surface ozone at Xianggelila Regional Atmosphere Background Station, southwest China. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 5311-5325.	1.9	42
42	SO ₂ noontime-peak phenomenon in the North China Plain. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 7757-7768.	1.9	41
43	Spatio-temporal variations in SO ₂ and NO ₂ emissions caused by heating over the Beijing-Tianjin-Hebei Region constrained by an adaptive nudging method with OMI data. <i>Science of the Total Environment</i> , 2018, 642, 543-552.	3.9	41
44	Seasonal variation in surface ozone and its regional characteristics at global atmosphere watch stations in China. <i>Journal of Environmental Sciences</i> , 2019, 77, 291-302.	3.2	41
45	GC–GC measurements of C ₇ –C ₁₁ aromatic and n-alkane hydrocarbons on Crete, in air from Eastern Europe during the MINOS campaign. <i>Atmospheric Chemistry and Physics</i> , 2003, 3, 1461-1475.	1.9	40
46	Contribution of hydroxymethanesulfonate (HMS) to severe winter haze in the North China Plain. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 5887-5897.	1.9	40
47	NH ₃ -promoted hydrolysis of NO ₂ induces explosive growth in HONO. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 10557-10570.	1.9	38
48	Dust-Dominated Coarse Particles as a Medium for Rapid Secondary Organic and Inorganic Aerosol Formation in Highly Polluted Air. <i>Environmental Science & Technology</i> , 2020, 54, 15710-15721.	4.6	37
49	Lower tropospheric distributions of O ₃ and aerosol over Raoyang, a rural site in the North China Plain. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 3891-3903.	1.9	35
50	Two-year measurements of surface ozone at Dangxiong, a remote highland site in the Tibetan Plateau. <i>Journal of Environmental Sciences</i> , 2015, 31, 133-145.	3.2	33
51	First simultaneous measurements of peroxyacetyl nitrate (PAN) and ozone at Nam Co in the central Tibetan Plateau: impacts from the PBL evolution and transport processes. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 5199-5217.	1.9	32
52	Wintertime peroxyacetyl nitrate (PAN) in the megacity Beijing: Role of photochemical and meteorological processes. <i>Journal of Environmental Sciences</i> , 2014, 26, 83-96.	3.2	31
53	Explosive morning growth phenomena of NH ₃ on the North China Plain: Causes and potential impacts on aerosol formation. <i>Environmental Pollution</i> , 2020, 257, 113621.	3.7	27
54	Zonal Similarity of Long-Term Changes and Seasonal Cycles of Baseline Ozone at Northern Midlatitudes. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2019JD031908.	1.2	27

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55	A study of the atmospheric VOCs of Mount Tai in June 2006. <i>Atmospheric Environment</i> , 2009, 43, 2503-2508.	1.9	25
56	Significant downward trend of SO ₂ observed from 2005 to 2010 at a background station in the Yangtze Delta region, China. <i>Science China Chemistry</i> , 2012, 55, 1451-1458.	4.2	24
57	Marine carbonyl sulfide (OCS) and carbon disulfide (CS ₂): a compilation of measurements in seawater and the marine boundary layer. <i>Earth System Science Data</i> , 2020, 12, 591-609.	3.7	24
58	Lower tropospheric ozone over the North China Plain: variability and trends revealed by IASI satellite observations for 2008–2016. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 16439-16459.	1.9	23
59	Trends of Tropospheric Ozone over China Based on Satellite Data (1979–2005). <i>Advances in Climate Change Research</i> , 2011, 2, 43-48.	2.1	22
60	10Be/7Be implies the contribution of stratosphere-troposphere transport to the winter-spring surface O ₃ variation observed on the Tibetan Plateau. <i>Science Bulletin</i> , 2011, 56, 84-88.	1.7	22
61	Recent advances in studies of ozone pollution and impacts in China: A short review. <i>Current Opinion in Environmental Science and Health</i> , 2021, 19, 100225.	2.1	21
62	Aerosol Promotes Peroxyacetyl Nitrate Formation During Winter in the North China Plain. <i>Environmental Science & Technology</i> , 2021, 55, 3568-3581.	4.6	20
63	Impact of the East Asian summer monsoon on long-term variations in the acidity of summer precipitation in Central China. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 1671-1684.	1.9	17
64	Wet deposition of sulfur and nitrogen at Mt. Emei in the West China Rain Zone, southwestern China: Status, inter-annual changes, and sources. <i>Science of the Total Environment</i> , 2020, 713, 136676.	3.9	17
65	Impact of volatile organic compounds and photochemical activities on particulate matters during a high ozone episode at urban, suburb and regional background stations in Beijing. <i>Atmospheric Environment</i> , 2020, 236, 117629.	1.9	16
66	Coupling of comprehensive two-dimensional gas chromatography with quadrupole mass spectrometry: Application to the identification of atmospheric volatile organic compounds. <i>Journal of Chromatography A</i> , 2014, 1361, 229-239.	1.8	15
67	Background concentrations of reactive gases and the impacts of long-range transport at the Jinsha regional atmospheric background station. <i>Science China Earth Sciences</i> , 2011, 54, 1604-1613.	2.3	14
68	Characteristics of precipitation chemistry at Lushan Mountain, East China: 1992–2009. <i>Environmental Science and Pollution Research</i> , 2012, 19, 2329-2343.	2.7	13
69	Observations of high level of ozone at Qinghai Lake basin in the northeastern Qinghai-Tibetan Plateau, western China. <i>Journal of Atmospheric Chemistry</i> , 2015, 72, 19-26.	1.4	12
70	Observed levels and trends of gaseous SO ₂ and HNO ₃ at Mt. Waliguan, China: Results from 1997 to 2009. <i>Journal of Environmental Sciences</i> , 2013, 25, 726-734.	3.2	11
71	Assessing the effect of a Saharan dust storm on oxygenated organic compounds at Izaña, Tenerife (July–August 2002). <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	9
72	Measurement report: Long-term variations in carbon monoxide at a background station in China's Yangtze River Delta region. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 15969-15982.	1.9	9

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73	Understanding the formation of high-ozone episodes at Raoyang, a rural site in the north China plain. <i>Atmospheric Environment</i> , 2020, 240, 117797.	1.9	7
74	Measurement report: Long-term variations in surface NO ₂ and SO ₂ mixing ratios from 2006 to 2016 at a background site in the Yangtze River Delta region, China. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 1015-1033.	1.9	6
75	Mode Calculation and Testing of a Car Body in White. <i>Shock and Vibration</i> , 2011, 18, 289-298.	0.3	4
76	Pollution plumes observed by aircraft over North China during the IPAC-NC field campaign. <i>Science Bulletin</i> , 2013, 58, 4329-4336.	1.7	4
77	Characteristics of gaseous pollutants at Jinsha, a remote mountain site in Central China. <i>Scientia Sinica Chimica</i> , 2011, 41, 136-144.	0.2	4
78	Temporal Variation of NO ₂ and HCHO Vertical Profiles Derived from MAX-DOAS Observation in Summer at a Rural Site of the North China Plain and Ozone Production in Relation to HCHO/NO ₂ Ratio. <i>Atmosphere</i> , 2022, 13, 860.	1.0	4
79	Measuring the Vertical Profiles of Aerosol Extinction in the Lower Troposphere by MAX-DOAS at a Rural Site in the North China Plain. <i>Atmosphere</i> , 2020, 11, 1037.	1.0	3
80	Analysis of atmospheric organic compounds by thermal desorption-comprehensive two-dimensional gas chromatography-flame ionization detection. <i>Scientia Sinica Chimica</i> , 2012, 42, 164-174.	0.2	3
81	Ozone and aerosols over the Tibetan Plateau. , 2022, , 287-302.		2
82	An empirical model for estimating the concentration of carbonyl sulfide in surface seawater from satellite measurements. <i>Geophysical Research Letters</i> , 2002, 29, 30-1-30-4.	1.5	1
83	Measurement report: Variations in surface SO ₂ and NO ₂ mixing ratios from 2004 to 2016 at a background site in the North China Plain. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 7071-7085.	1.9	1
84	Analysis of acid rain effects on vegetation in eco-regions in China based on AVHRR/NDVI. , 2010, , .		0