

# Jun Tao

## List of Publications by Year in descending order

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104  
papers

6,807  
citations

71004

43  
h-index

73587

79  
g-index

119  
all docs

119  
docs citations

119  
times ranked

6952  
citing authors

#	ARTICLE	IF	CITATIONS
1	Seasonal variations of mass absorption efficiency of elemental carbon in PM2.5 in urban Guangzhou of South China. <i>Journal of Environmental Sciences</i> , 2023, 133, 83-92.	3.2	1
2	Environmental effects of China's coal ban policy: Results from in situ observations and model analysis in a typical rural area of the Beijing-Tianjin-Hebei region, China. <i>Atmospheric Research</i> , 2022, 268, 106015.	1.8	10
3	Source apportionment of carbonaceous aerosols using hourly data and implications for reducing PM2.5 in the Pearl River Delta region of South China. <i>Environmental Research</i> , 2022, 210, 112960.	3.7	16
4	Quantifying the relative contributions of aqueous phase and photochemical processes to water-soluble organic carbon formation in winter in a megacity of South China. <i>Chemosphere</i> , 2022, 300, 134598.	4.2	7
5	Secondary organic aerosol formation and source contributions over east China in summertime. <i>Environmental Pollution</i> , 2022, 306, 119383.	3.7	11
6	Direct and indirect effects and feedbacks of biomass burning aerosols over Mainland Southeast Asia and South China in springtime. <i>Science of the Total Environment</i> , 2022, 842, 156949.	3.9	11
7	Strong light scattering of highly oxygenated organic aerosols impacts significantly on visibility degradation. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 7713-7726.	1.9	10
8	Effect of source variation on the size and mixing state of black carbon aerosol in urban Beijing from 2013 to 2019: Implication on light absorption. <i>Environmental Pollution</i> , 2021, 270, 116089.	3.7	17
9	Quantifying the relative importance of major tracers for fine particles released from biofuel combustion in households in the rural North China Plain. <i>Environmental Pollution</i> , 2021, 268, 115764.	3.7	6
10	Spatial distribution and sources of winter black carbon and brown carbon in six Chinese megacities. <i>Science of the Total Environment</i> , 2021, 762, 143075.	3.9	34
11	Spectral absorption properties of organic carbon aerosol during a polluted winter in Beijing, China. <i>Science of the Total Environment</i> , 2021, 755, 142600.	3.9	13
12	Control of particulate nitrate air pollution in China. <i>Nature Geoscience</i> , 2021, 14, 389-395.	5.4	139
13	Size-resolved refractive index of scattering aerosols in urban Beijing: A seasonal comparison. <i>Aerosol Science and Technology</i> , 2021, 55, 1070-1083.	1.5	1
14	Variation in PM2.5 sources in central North China Plain during 2017-2019: Response to mitigation strategies. <i>Journal of Environmental Management</i> , 2021, 288, 112370.	3.8	22
15	Impact of deliquescence of aerosol on mass absorption efficiency of elemental carbon in fine particles in urban Guangzhou in south China. <i>Atmospheric Environment</i> , 2021, 256, 118476.	1.9	7
16	Reduction of air pollutants and associated mortality during and after the COVID-19 lockdown in China: Impacts and implications. <i>Environmental Research</i> , 2021, 200, 111457.	3.7	12
17	Impact of aerosol liquid water content and its size distribution on hygroscopic growth factor in urban Guangzhou of South China. <i>Science of the Total Environment</i> , 2021, 789, 148055.	3.9	7
18	Effects of chemical compositions in fine particles and their identified sources on hygroscopic growth factor during dry season in urban Guangzhou of South China. <i>Science of the Total Environment</i> , 2021, 801, 149749.	3.9	11

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19	Targeting gut microbiota with dietary components on cancer: Effects and potential mechanisms of action. <i>Critical Reviews in Food Science and Nutrition</i> , 2020, 60, 1025-1037.	5.4	73
20	Evaluation of the IMPROVE formulas based on Mie model in the calculation of particle scattering coefficient in an urban atmosphere. <i>Atmospheric Environment</i> , 2020, 222, 117116.	1.9	6
21	High mass absorption efficiency of carbonaceous aerosols during the biomass burning season in Chiang Mai of northern Thailand. <i>Atmospheric Environment</i> , 2020, 240, 117821.	1.9	18
22	Measurement report: Vertical distribution of atmospheric particulate matter within the urban boundary layer in southern China – size-segregated chemical composition and secondary formation through cloud processing and heterogeneous reactions. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 6435-6453.	1.9	29
23	Impact of particle number and mass size distributions of major chemical components on particle mass scattering efficiency in urban Guangzhou in southern China. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 8471-8490.	1.9	30
24	Seasonal characteristics of biogenic secondary organic aerosols at Mt. Wuyi in Southeastern China: Influence of anthropogenic pollutants. <i>Environmental Pollution</i> , 2019, 252, 493-500.	3.7	31
25	Multi-wavelength light absorption of black and brown carbon at a high-altitude site on the Southeastern margin of the Tibetan Plateau, China. <i>Atmospheric Environment</i> , 2019, 212, 54-64.	1.9	43
26	Five-year observation of aerosol optical properties and its radiative effects to planetary boundary layer during air pollution episodes in North China: Intercomparison of a plain site and a mountainous site in Beijing. <i>Science of the Total Environment</i> , 2019, 674, 140-158.	3.9	38
27	Chemical source profiles of urban fugitive dust PM <sub>2.5</sub> samples from 21 cities across China. <i>Science of the Total Environment</i> , 2019, 649, 1045-1053.	3.9	67
28	Association between the full range of birth weight and childhood weight status: by gestational age. <i>European Journal of Clinical Nutrition</i> , 2019, 73, 1141-1148.	1.3	4
29	Characteristics of Mass Absorption Efficiency of Elemental Carbon in Urban Chengdu, Southwest China: Implication for the Coating Effects on Aerosol Absorption. <i>Aerosol Science and Engineering</i> , 2018, 2, 33-41.	1.1	3
30	Ambient particulate matter air pollution associated with acute respiratory distress syndrome in Guangzhou, China. <i>Journal of Exposure Science and Environmental Epidemiology</i> , 2018, 28, 392-399.	1.8	53
31	Saccharides in summer and winter PM <sub>2.5</sub> over Xi'an, Northwestern China: Sources, and yearly variations of biomass burning contribution to PM <sub>2.5</sub> . <i>Atmospheric Research</i> , 2018, 214, 410-417.	1.8	42
32	The impact of biomass burning on total suspended particulate matter in the southeastern Tibetan Plateau. <i>Atmospheric Environment</i> , 2018, 193, 33-39.	1.9	4
33	Observational evidence of cloud processes contributing to daytime elevated nitrate in an urban atmosphere. <i>Atmospheric Environment</i> , 2018, 186, 209-215.	1.9	32
34	Five-S-isotope evidence of two distinct mass-independent sulfur isotope effects and implications for the modern and Archean atmospheres. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 8541-8546.	3.3	37
35	Shipping pollution emission associated with increased cardiovascular mortality: A time series study in Guangzhou, China. <i>Environmental Pollution</i> , 2018, 241, 862-868.	3.7	46
36	Influence of pollutants on activity of aerosol cloud condensation nuclei (CCN) during pollution and post-rain periods in Guangzhou, southern China. <i>Science of the Total Environment</i> , 2018, 642, 1008-1019.	3.9	20

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37	Biomass burning tracers in rural and urban ultrafine particles in Xi'an, China. <i>Atmospheric Pollution Research</i> , 2017, 8, 614-618.	1.8	23
38	Impact of size distributions of major chemical components in fine particles on light extinction in urban Guangzhou. <i>Science of the Total Environment</i> , 2017, 587-588, 240-247.	3.9	22
39	Vertically uniform formation pathways of tropospheric sulfate aerosols in East China detected from triple stable oxygen and radiogenic sulfur isotopes. <i>Geophysical Research Letters</i> , 2017, 44, 5187-5196.	1.5	20
40	Investigation of hygroscopic growth effect on aerosol scattering coefficient at a rural site in the southern North China Plain. <i>Science of the Total Environment</i> , 2017, 599-600, 76-84.	3.9	29
41	Observations of biomass burning tracers in PM <sub>2.5</sub> at two megacities in North China during 2014 APEC summit. <i>Atmospheric Environment</i> , 2017, 169, 54-64.	1.9	24
42	Comparison of aerosol and cloud condensation nuclei between wet and dry seasons in Guangzhou, southern China. <i>Science of the Total Environment</i> , 2017, 607-608, 11-22.	3.9	8
43	Methanol Extracted Brown Carbon in PM <sub>2.5</sub> Over Xi'an, China: Seasonal Variation of Optical Properties and Sources Identification. <i>Aerosol Science and Engineering</i> , 2017, 1, 57-65.	1.1	39
44	Composition and size distribution of airborne particulate PAHs and oxygenated PAHs in two Chinese megacities. <i>Atmospheric Research</i> , 2017, 183, 322-330.	1.8	69
45	Source apportionment of PM <sub>2.5</sub> at urban and suburban areas of the Pearl River Delta region, south China - With emphasis on ship emissions. <i>Science of the Total Environment</i> , 2017, 574, 1559-1570.	3.9	182
46	Size distribution and source of black carbon aerosol in urban Beijing during winter haze episodes. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 7965-7975.	1.9	53
47	A review of current knowledge concerning PM <sub>2.5</sub> ; chemical composition, aerosol optical properties and their relationships across China. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 9485-9518.	1.9	280
48	Variations of Chemical Composition and Source Apportionment of PM <sub>2.5</sub> during Winter Haze Episodes in Beijing. <i>Aerosol and Air Quality Research</i> , 2017, 17, 2791-2803.	0.9	25
49	High Contributions of Secondary Inorganic Aerosols to PM <sub>2.5</sub> under Polluted Levels at a Regional Station in Northern China. <i>International Journal of Environmental Research and Public Health</i> , 2016, 13, 1202.	1.2	11
50	Unexpected high <sup>35</sup> S concentration revealing strong downward transport of stratospheric air during the monsoon transitional period in East Asia. <i>Geophysical Research Letters</i> , 2016, 43, 2315-2322.	1.5	13
51	Mortality burden of ambient fine particulate air pollution in six Chinese cities: Results from the Pearl River Delta study. <i>Environment International</i> , 2016, 96, 91-97.	4.8	156
52	Chemical and optical characteristics of atmospheric aerosols in Beijing during the Asia-Pacific Economic Cooperation China 2014. <i>Atmospheric Environment</i> , 2016, 144, 8-16.	1.9	26
53	Chemical characterization and source apportionment of PM <sub>2.5</sub> in a semi-arid and petrochemical-industrialized city, Northwest China. <i>Science of the Total Environment</i> , 2016, 573, 1031-1040.	3.9	156
54	Insights into a historic severe haze event in Shanghai: synoptic situation, boundary layer and pollutants. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 9221-9234.	1.9	62

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55	Associations of Short-Term and Long-Term Exposure to Ambient Air Pollutants With Hypertension. <i>Hypertension</i> , 2016, 68, 62-70.	1.3	239
56	Particle size and chemical constituents of ambient particulate pollution associated with cardiovascular mortality in Guangzhou, China. <i>Environmental Pollution</i> , 2016, 208, 758-766.	3.7	187
57	Uncertainty assessment of source attribution of PM <sub>2.5</sub> and its water-soluble organic carbon content using different biomass burning tracers in positive matrix factorization analysis "a case study in Beijing, China. <i>Science of the Total Environment</i> , 2016, 543, 326-335.	3.9	75
58	The associations between birth weight and exposure to fine particulate matter (PM <sub>2.5</sub> ) and its chemical constituents during pregnancy: A meta-analysis. <i>Environmental Pollution</i> , 2016, 211, 38-47.	3.7	179
59	Differentiating the effects of characteristics of PM pollution on mortality from ischemic and hemorrhagic strokes. <i>International Journal of Hygiene and Environmental Health</i> , 2016, 219, 204-211.	2.1	70
60	Modeling organic aerosols over east China using a volatility basis-set approach with aging mechanism in a regional air quality model. <i>Atmospheric Environment</i> , 2016, 124, 186-198.	1.9	53
61	Effect of ambient humidity on the light absorption amplification of black carbon in Beijing during January 2013. <i>Atmospheric Environment</i> , 2016, 124, 217-223.	1.9	62
62	Evolution of aerosol vertical distribution during particulate pollution events in Shanghai. <i>Journal of Meteorological Research</i> , 2015, 29, 385-399.	0.9	15
63	Observation and analysis of near-surface atmospheric aerosol optical properties in urban Beijing. <i>Particuology</i> , 2015, 18, 144-154.	2.0	52
64	Seasonal variation and difference of aerosol optical properties in columnar and surface atmospheres over Shanghai. <i>Atmospheric Environment</i> , 2015, 123, 315-326.	1.9	76
65	Significant influence of fungi on coarse carbonaceous and potassium aerosols in a tropical rainforest. <i>Environmental Research Letters</i> , 2015, 10, 034015.	2.2	26
66	Aerosol chemical composition and light scattering during a winter season in Beijing. <i>Atmospheric Environment</i> , 2015, 110, 36-44.	1.9	74
67	Comparison of ionic and carbonaceous compositions of PM <sub>2.5</sub> in 2009 and 2012 in Shanghai, China. <i>Science of the Total Environment</i> , 2015, 536, 695-703.	3.9	48
68	Characteristics and applications of size-segregated biomass burning tracers in China's Pearl River Delta region. <i>Atmospheric Environment</i> , 2015, 102, 290-301.	1.9	62
69	Control of PM 2.5 in Guangzhou during the 16th Asian Games period: Implication for hazy weather prevention. <i>Science of the Total Environment</i> , 2015, 508, 57-66.	3.9	45
70	Inter-Annual Variations of Cloud and Precipitation and their Possible Relationships with Surface Aerosols in Shanghai. <i>Aerosol and Air Quality Research</i> , 2015, 15, 1367-1379.	0.9	4
71	Spectral Light Absorption of Ambient Aerosols in Urban Beijing during Summer: An Intercomparison of Measurements from a Range of Instruments. <i>Aerosol and Air Quality Research</i> , 2015, 15, 1178-1187.	0.9	18
72	Characterization and source apportionment of aerosol light extinction in Chengdu, southwest China. <i>Atmospheric Environment</i> , 2014, 95, 552-562.	1.9	67

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73	Characteristics and relevant remote sources of black carbon aerosol in Shanghai. <i>Atmospheric Research</i> , 2014, 135-136, 159-171.	1.8	38
74	Impact of PM <sub>2.5</sub> chemical compositions on aerosol light scattering in Guangzhou – the largest megacity in South China. <i>Atmospheric Research</i> , 2014, 135-136, 48-58.	1.8	158
75	Photochemical properties and source of pollutants during continuous pollution episodes in Beijing, October, 2011. <i>Journal of Environmental Sciences</i> , 2014, 26, 44-53.	3.2	14
76	Optical properties and chemical composition of PM <sub>2.5</sub> in Shanghai in the spring of 2012. <i>Particuology</i> , 2014, 13, 52-59.	2.0	24
77	Impacts of new particle formation on aerosol cloud condensation nuclei (CCN) activity in Shanghai: case study. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 11353-11365.	1.9	34
78	Evolution of aerosol chemistry in Xi'an, inland China, during the dust storm period of 2013 – Part 1: Sources, chemical forms and formation mechanisms of nitrate and sulfate. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 11571-11585.	1.9	49
79	Variations of cloud condensation nuclei (CCN) and aerosol activity during fog/haze episode: a case study from Shanghai. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 12499-12512.	1.9	38
80	An alternative method for estimating hygroscopic growth factor of aerosol light-scattering coefficient: a case study in an urban area of Guangzhou, South China. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 7631-7644.	1.9	26
81	PM <sub>2.5</sub> pollution in a megacity of southwest China: source apportionment and implication. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 8679-8699.	1.9	309
82	Ammonium deficiency caused by heterogeneous reactions during a super Asian dust episode. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 6803-6817.	1.2	17
83	Characterization of fine particulate black carbon in Guangzhou, a megacity of South China. <i>Atmospheric Pollution Research</i> , 2014, 5, 361-370.	1.8	36
84	Study of Aerosol Optical Properties Based on Ground Measurements over Sichuan Basin, China. <i>Aerosol and Air Quality Research</i> , 2014, 14, 905-915.	0.9	27
85	Chemical characteristics of PM <sub>2.5</sub> during dust storms and air pollution events in Chengdu, China. <i>Particuology</i> , 2013, 11, 70-77.	2.0	56
86	Variation trends and influencing factors of total gaseous mercury in the Pearl River Delta – A highly industrialised region in South China – influenced by seasonal monsoons. <i>Atmospheric Environment</i> , 2013, 77, 757-766.	1.9	46
87	Chemical composition of PM <sub>2.5</sub> in an urban environment in Chengdu, China: Importance of springtime dust storms and biomass burning. <i>Atmospheric Research</i> , 2013, 122, 270-283.	1.8	236
88	Measurements of surface cloud condensation nuclei and aerosol activity in downtown Shanghai. <i>Atmospheric Environment</i> , 2013, 69, 354-361.	1.9	35
89	Chemical composition of PM <sub>2.5</sub> at an urban site of Chengdu in southwestern China. <i>Advances in Atmospheric Sciences</i> , 2013, 30, 1070-1084.	1.9	93
90	Characteristics of fine particulate non-polar organic compounds in Guangzhou during the 16th Asian Games: Effectiveness of air pollution controls. <i>Atmospheric Environment</i> , 2013, 76, 94-101.	1.9	61

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91	Impact of relative humidity and particles number size distribution on aerosol light extinction in the urban area of Guangzhou. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 1115-1128.	1.9	43
92	Impact of Gobi desert dust on aerosol chemistry of Xi'an, inland China during spring 2009: differences in composition and size distribution between the urban ground surface and the mountain atmosphere. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 819-835.	1.9	118
93	Chemical characterization and source apportionment of PM <sub>2.5</sub> in Beijing: seasonal perspective. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 7053-7074.	1.9	1,063
94	Long-Term Trends in Visibility and at Chengdu, China. <i>PLoS ONE</i> , 2013, 8, e68894.	1.1	32
95	Influences of Commuting Mode, Air Conditioning Mode and Meteorological Parameters on Fine Particle (PM <sub>2.5</sub> ) Exposure Levels in Traffic Microenvironments. <i>Aerosol and Air Quality Research</i> , 2013, 13, 709-720.	0.9	54
96	Seasonal variations and chemical characteristics of sub-micrometer particles (PM <sub>1</sub> ) in Guangzhou, China. <i>Atmospheric Research</i> , 2012, 118, 222-231.	1.8	88
97	Measurements of surface aerosol optical properties in winter of Shanghai. <i>Atmospheric Research</i> , 2012, 109-110, 25-35.	1.8	65
98	Reconstructed light extinction coefficients using chemical compositions of PM <sub>2.5</sub> in winter in Urban Guangzhou, China. <i>Advances in Atmospheric Sciences</i> , 2012, 29, 359-368.	1.9	37
99	Observation of elevated fungal tracers due to biomass burning in the Sichuan Basin at Chengdu City, China. <i>Science of the Total Environment</i> , 2012, 431, 68-77.	3.9	93
100	Characterization of Atmospheric Organic and Elemental Carbon of PM <sub>2.5</sub> in a Typical Semi-Arid Area of Northeastern China. <i>Aerosol and Air Quality Research</i> , 2012, 12, 792-802.	0.9	56
101	Regression Analyses between Recent Air Quality and Visibility Changes in Megacities at Four Haze Regions in China. <i>Aerosol and Air Quality Research</i> , 2012, 12, 1049-1061.	0.9	50
102	Stable carbon isotopes in aerosols from Chinese cities: Influence of fossil fuels. <i>Atmospheric Environment</i> , 2011, 45, 1359-1363.	1.9	149
103	Chemical properties and origin of dust aerosols in Beijing during springtime. <i>Particuology</i> , 2009, 7, 61-67.	2.0	48
104	Effect of chemical composition of PM <sub>2.5</sub> on visibility in Guangzhou, China, 2007 spring. <i>Particuology</i> , 2009, 7, 68-75.	2.0	129