

Tao Xue

List of Publications by Year in descending order

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Version: 2024-02-01

107
papers

3,883
citations

159358

30
h-index

138251

58
g-index

113
all docs

113
docs citations

113
times ranked

3288
citing authors

#	ARTICLE	IF	CITATIONS
1	Ground-level ozone pollution and its health impacts in China. <i>Atmospheric Environment</i> , 2018, 173, 223-230.	1.9	293
2	Targeted emission reductions from global super-polluting power plant units. <i>Nature Sustainability</i> , 2018, 1, 59-68.	11.5	215
3	Air quality improvements and health benefits from China's clean air action since 2013. <i>Environmental Research Letters</i> , 2017, 12, 114020.	2.2	213
4	Spatiotemporal continuous estimates of PM _{2.5} concentrations in China, 2000–2016: A machine learning method with inputs from satellites, chemical transport model, and ground observations. <i>Environment International</i> , 2019, 123, 345-357.	4.8	207
5	Tracking Air Pollution in China: Near Real-Time PM _{2.5} Retrievals from Multisource Data Fusion. <i>Environmental Science & Technology</i> , 2021, 55, 12106-12115.	4.6	205
6	Drivers of PM _{2.5} air pollution deaths in China 2002–2017. <i>Nature Geoscience</i> , 2021, 14, 645-650.	5.4	197
7	Rapid transitions in the epidemiology of stroke and its risk factors in China from 2002 to 2013. <i>Neurology</i> , 2017, 89, 53-61.	1.5	168
8	Rapid improvement of PM _{2.5} pollution and associated health benefits in China during 2013–2017. <i>Science China Earth Sciences</i> , 2019, 62, 1847-1856.	2.3	146
9	Current Emissions and Future Mitigation Pathways of Coal-Fired Power Plants in China from 2010 to 2030. <i>Environmental Science & Technology</i> , 2018, 52, 12905-12914.	4.6	122
10	Estimating Spatiotemporal Variation in Ambient Ozone Exposure during 2013–2017 Using a Data-Fusion Model. <i>Environmental Science & Technology</i> , 2020, 54, 14877-14888.	4.6	118
11	Tracking PM _{2.5} and O ₃ Pollution and the Related Health Burden in China 2013–2020. <i>Environmental Science & Technology</i> , 2022, 56, 6922-6932.	4.6	113
12	Declines in mental health associated with air pollution and temperature variability in China. <i>Nature Communications</i> , 2019, 10, 2165.	5.8	112
13	Introduction to the CDEX experiment. <i>Frontiers of Physics</i> , 2013, 8, 412-437.	2.4	80
14	Underreported coal in statistics: A survey-based solid fuel consumption and emission inventory for the rural residential sector in China. <i>Applied Energy</i> , 2019, 235, 1169-1182.	5.1	77
15	Evaluation of gap-filling approaches in satellite-based daily PM _{2.5} prediction models. <i>Atmospheric Environment</i> , 2021, 244, 117921.	1.9	71
16	High-Resolution Spatiotemporal Modeling for Ambient PM _{2.5} Exposure Assessment in China from 2013 to 2019. <i>Environmental Science & Technology</i> , 2021, 55, 2152-2162.	4.6	67
17	Fusing Observational, Satellite Remote Sensing and Air Quality Model Simulated Data to Estimate Spatiotemporal Variations of PM _{2.5} Exposure in China. <i>Remote Sensing</i> , 2017, 9, 221.	1.8	55
18	Associating ambient exposure to fine particles and human fertility rates in China. <i>Environmental Pollution</i> , 2018, 235, 497-504.	3.7	53

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19	Association Between Changes in Exposure to Air Pollution and Biomarkers of Oxidative Stress in Children Before and During the Beijing Olympics. <i>American Journal of Epidemiology</i> , 2015, 181, 575-583.	1.6	50
20	Association between pregnancy loss and ambient PM _{2.5} using survey data in Africa: a longitudinal case-control study, 1998–2016. <i>Lancet Planetary Health</i> , The, 2019, 3, e219-ee225.	5.1	46
21	Change in the number of PM _{2.5} -attributed deaths in China from 2000 to 2010: Comparison between estimations from census-based epidemiology and pre-established exposure-response functions. <i>Environment International</i> , 2019, 129, 430-437.	4.8	44
22	Estimation of pregnancy losses attributable to exposure to ambient fine particles in south Asia: an epidemiological case-control study. <i>Lancet Planetary Health</i> , The, 2021, 5, e15-e24.	5.1	44
23	Role of climate goals and clean-air policies on reducing future air pollution deaths in China: a modelling study. <i>Lancet Planetary Health</i> , The, 2022, 6, e92-e99.	5.1	44
24	Association between exposure to air pollution and risk of allergic rhinitis: A systematic review and meta-analysis. <i>Environmental Research</i> , 2022, 205, 112472.	3.7	43
25	The efficacy and safety of dual orexin receptor antagonists in primary insomnia: A systematic review and network meta-analysis. <i>Sleep Medicine Reviews</i> , 2022, 61, 101573.	3.8	41
26	Releasing characteristics of phosphorus and other substances during thermal treatment of excess sludge. <i>Journal of Environmental Sciences</i> , 2007, 19, 1153-1158.	3.2	37
27	Association of long-term exposure to PM _{2.5} with blood lipids in the Chinese population: Findings from a longitudinal quasi-experiment. <i>Environment International</i> , 2021, 151, 106454.	4.8	35
28	The effect of China's Clean Air Act on cognitive function in older adults: a population-based, quasi-experimental study. <i>The Lancet Healthy Longevity</i> , 2022, 3, e98-e108.	2.0	35
29	Acute and chronic effects of ambient fine particulate matter on preterm births in Beijing, China: A time-series model. <i>Science of the Total Environment</i> , 2019, 650, 1671-1677.	3.9	33
30	Evaluating the spatiotemporal ozone characteristics with high-resolution predictions in mainland China, 2013–2019. <i>Environmental Pollution</i> , 2022, 299, 118865.	3.7	33
31	Short-term effect of apparent temperature on daily emergency visits for mental and behavioral disorders in Beijing, China: A time-series study. <i>Science of the Total Environment</i> , 2020, 733, 139040.	3.9	32
32	Increment of ambient exposure to fine particles and the reduced human fertility rate in China, 2000–2010. <i>Science of the Total Environment</i> , 2018, 642, 497-504.	3.9	31
33	Association between exposure to fine particulate matter and obesity in children: A national representative cross-sectional study in China. <i>Environment International</i> , 2020, 143, 105950.	4.8	31
34	Open fire exposure increases the risk of pregnancy loss in South Asia. <i>Nature Communications</i> , 2021, 12, 3205.	5.8	31
35	Organic Components of Personal PM _{2.5} Exposure Associated with Inflammation: Evidence from an Untargeted Exposomic Approach. <i>Environmental Science & Technology</i> , 2021, 55, 10589-10596.	4.6	31
36	Long-term PM _{2.5} exposure and depressive symptoms in China: A quasi-experimental study. <i>The Lancet Regional Health - Western Pacific</i> , 2021, 6, 100079.	1.3	31

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37	Differential Susceptibility in Ambient Particles—Related Risk of First-Ever Stroke: Findings From a National Case-Crossover Study. <i>American Journal of Epidemiology</i> , 2018, 187, 1001-1009.	1.6	26
38	Susceptibility of prediabetes to the health effect of air pollution: a community-based panel study with a nested case-control design. <i>Environmental Health</i> , 2019, 18, 65.	1.7	26
39	The state of science on severe air pollution episodes: Quantitative and qualitative analysis. <i>Environment International</i> , 2021, 156, 106732.	4.8	26
40	Associations between exposure to landscape fire smoke and child mortality in low-income and middle-income countries: a matched case-control study. <i>Lancet Planetary Health</i> , The, 2021, 5, e588-e598.	5.1	25
41	Changes in bioactive lipid mediators in response to short-term exposure to ambient air particulate matter: A targeted lipidomic analysis of oxylipin signaling pathways. <i>Environment International</i> , 2021, 147, 106314.	4.8	24
42	Using spatio-temporal modeling for exposure assessment in an investigation of fine particulate air pollution and cardiovascular mortality. <i>Environmental Research</i> , 2016, 151, 564-572.	3.7	22
43	Association between fertility rate reduction and pre-gestational exposure to ambient fine particles in the United States, 2003—2011. <i>Environment International</i> , 2018, 121, 955-962.	4.8	22
44	Clean air actions in China, PM _{2.5} exposure, and household medical expenditures: A quasi-experimental study. <i>PLoS Medicine</i> , 2021, 18, e1003480.	3.9	22
45	Estimating 2013—2019 NO ₂ exposure with high spatiotemporal resolution in China using an ensemble model. <i>Environmental Pollution</i> , 2022, 292, 118285.	3.7	22
46	Association Between Hypertensive Disorders in Pregnancy and Particulate Matter in the Contiguous United States, 1999—2004. <i>Hypertension</i> , 2018, 72, 77-84.	1.3	21
47	Clinical blood pressure responses to daily ambient temperature exposure in China: An analysis based on a representative nationwide population. <i>Science of the Total Environment</i> , 2020, 705, 135762.	3.9	21
48	Modeling the Prevalence of Asymptomatic COVID-19 Infections in the Chinese Mainland. <i>Innovation(China)</i> , 2020, 1, 100026.	5.2	21
49	Long-term exposure to ambient PM _{2.5} increase obesity risk in Chinese adults: A cross-sectional study based on a nationwide survey in China. <i>Science of the Total Environment</i> , 2021, 778, 145812.	3.9	20
50	Exposure to landscape fire smoke reduced birthweight in low- and middle-income countries: findings from a siblings-matched case-control study. <i>ELife</i> , 2021, 10, .	2.8	19
51	First results on 76Ge neutrinoless double beta decay from CDEX-1 experiment. <i>Science China: Physics, Mechanics and Astronomy</i> , 2017, 60, 1.	2.0	16
52	Association between a Rapid Reduction in Air Particle Pollution and Improved Lung Function in Adults. <i>Annals of the American Thoracic Society</i> , 2021, 18, 247-256.	1.5	16
53	Burden of lung cancer attributable to ambient fine particles and potential benefits from air quality improvements in Beijing, China: A population-based study. <i>Science of the Total Environment</i> , 2020, 738, 140313.	3.9	15
54	Climate change mitigation in Chinese megacities: A measures-based analysis of opportunities in the residential sector. <i>Applied Energy</i> , 2016, 184, 769-778.	5.1	14

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55	A component-specific exposure–mortality model for ambient PM _{2.5} in China: findings from nationwide epidemiology based on outputs from a chemical transport model. <i>Faraday Discussions</i> , 2021, 226, 551-568.	1.6	14
56	Design of Giga bit Ethernet readout module based on ZYNQ for HPGc. , 2014, , .		13
57	The Design and Data-Throughput Performance of Readout Module Based on ZYNQ SoC. <i>IEEE Transactions on Nuclear Science</i> , 2018, 65, 1169-1179.	1.2	13
58	Health effects of air pollution: what we need to know and to do in the next decade. <i>Journal of Thoracic Disease</i> , 2019, 11, 1727-1730.	0.6	13
59	A national case-crossover study on ambient ozone pollution and first-ever stroke among Chinese adults: Interpreting a weak association via differential susceptibility. <i>Science of the Total Environment</i> , 2019, 654, 135-143.	3.9	13
60	Biases Arising from the Use of Ambient Measurements to Represent Personal Exposure in Evaluating Inflammatory Responses to Fine Particulate Matter: Evidence from a Panel Study in Beijing, China. <i>Environmental Science and Technology Letters</i> , 2020, 7, 746-752.	3.9	13
61	Reduction of Global Life Expectancy Driven by Trade-Related Transboundary Air Pollution. <i>Environmental Science and Technology Letters</i> , 2022, 9, 212-218.	3.9	13
62	New WHO global air quality guidelines help prevent premature deaths in China. <i>National Science Review</i> , 2022, 9, nwac055.	4.6	13
63	Performances of a prototype point-contact germanium detector immersed in liquid nitrogen for light dark matter search. <i>Science China: Physics, Mechanics and Astronomy</i> , 2019, 62, 1.	2.0	11
64	Contribution of Temperature Increase to Restrain the Transmission of COVID-19. <i>Innovation(China)</i> , 2021, 2, 100071.	5.2	11
65	Association of maternal exposure to ambient particulate pollution with incident spontaneous pregnancy loss. <i>Ecotoxicology and Environmental Safety</i> , 2021, 224, 112653.	2.9	11
66	Ambient Air Pollution and Atherosclerosis: A Potential Mediating Role of Sphingolipids. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2022, 42, 906-918.	1.1	11
67	Association Between Ambient Fine Particulate Matter and Physical Functioning in Middle-Aged and Older Chinese Adults: A Nationwide Longitudinal Study. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2022, 77, 986-993.	1.7	9
68	Time-varying association between fetal death and gestational exposure to ambient fine particles: a nationwide epidemiological study of 49 million fetuses in the contiguous US from 1989 to 2004. <i>International Journal of Epidemiology</i> , 2022, 51, 1984-1999.	0.9	9
69	Association between birthweight and ambient PM _{2.5} in the United States: Individually-varied susceptibility and spatial heterogeneity. <i>Environment International</i> , 2018, 119, 388-397.	4.8	8
70	First experimental constraints on WIMP couplings in the effective field theory framework from CDEX. <i>Science China: Physics, Mechanics and Astronomy</i> , 2021, 64, 1.	2.0	8
71	Ceramide metabolism mediates the impaired glucose homeostasis following short-term black carbon exposure: A targeted lipidomic analysis. <i>Science of the Total Environment</i> , 2022, 829, 154657.	3.9	8
72	Preliminary Design of Integrated Digitizer Base for Photomultiplier Tube. <i>IEEE Transactions on Nuclear Science</i> , 2019, 66, 1130-1137.	1.2	7

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73	Geographic variations in the blood pressure responses to short-term fine particulate matter exposure in China. <i>Science of the Total Environment</i> , 2020, 722, 137842.	3.9	7
74	How protective is China's National Ambient Air Quality Standards on short-term PM _{2.5} ? Findings from blood pressure measurements of 1 million adults. <i>Environmental Research Letters</i> , 2020, 15, 125014.	2.2	7
75	Associations between differences in anemia-related blood cell parameters and short-term exposure to ambient particle pollutants in middle-aged and elderly residents in Beijing, China. <i>Science of the Total Environment</i> , 2022, 816, 151520.	3.9	7
76	Quantifying the contribution of temperature anomaly to stroke risk in China. <i>Environmental Research Letters</i> , 2020, 15, 105014.	2.2	7
77	Gestational exposure to landscape fire increases under-5 child death via reducing birthweight: A risk assessment based on mediation analysis in low- and middle-income countries. <i>Ecotoxicology and Environmental Safety</i> , 2022, 240, 113673.	2.9	7
78	Readout system with 2-channel 8-bit 1GHz FADC based on RAIN1000Z1 ZYNQ module for crystal detector. , 2016, , .		6
79	Difference in ambient-personal exposure to PM _{2.5} and its inflammatory effect in local residents in urban and peri-urban Beijing, China: results of the AIRLESS project. <i>Faraday Discussions</i> , 2021, 226, 569-583.	1.6	6
80	Internal metal(loid)s are potentially involved in the association between ambient fine particulate matter and blood pressure: A repeated-measurement study in north China. <i>Chemosphere</i> , 2021, 267, 129146.	4.2	6
81	SARS pandemic exposure impaired early childhood development in China. <i>Scientific Reports</i> , 2021, 11, 8694.	1.6	6
82	Consumption-based PM _{2.5} -related premature mortality in the Beijing-Tianjin-Hebei region. <i>Science of the Total Environment</i> , 2021, 800, 149575.	3.9	6
83	Differences in transcriptome response to air pollution exposure between adult residents with and without chronic obstructive pulmonary disease in Beijing: A panel study. <i>Journal of Hazardous Materials</i> , 2021, 416, 125790.	6.5	5
84	Combo FADC readout system with 8-channel 14-Bit 100MHz FADC and 2-channel 12-Bit 2GHz FADC for HPGe detector. , 2015, , .		4
85	Using structural equation modeling to construct calibration equations relating PM _{2.5} mass concentration samplers to the federal reference method sampler. <i>Atmospheric Environment</i> , 2015, 103, 365-377.	1.9	4
86	Susceptibility of patients with chronic obstructive pulmonary disease to heart rate difference associated with the short-term exposure to metals in ambient fine particles: A panel study in Beijing, China. <i>Science China Life Sciences</i> , 2021, , 1.	2.3	4
87	Effects of physical activity intensity on adulthood obesity as a function of long-term exposure to ambient PM _{2.5} : Observations from a Chinese nationwide representative sample. <i>Science of the Total Environment</i> , 2022, 823, 153417.	3.9	4
88	8-channel 14-Bit 125MHz FADC electronics with 1G Ethernet readout based on ZYNQ for HPGe Detector. , 2014, , .		3
89	208,207,206,natPb(p,x)207Bi and 209Bi (p,x)207Bi excitation functions in the energy range of 0.04 - 2.6 GeV. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2020, 984, 164635.	0.7	3
90	Urban greenness and survival in lung cancer patients: A registry-based cohort study in Beijing. <i>Ecotoxicology and Environmental Safety</i> , 2021, 228, 113042.	2.9	3

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91	Short-term effect of PM _{2.5} on stroke in susceptible populations: A case-crossover study. International Journal of Stroke, 2023, 18, 312-321.	2.9	3
92	High performance readout module based on ZYNQ with giga ethernet. , 2016, , .		2
93	Prototype of Integrated Pulse Digitalization and Readout Electronics for CLYC Detector. , 2018, , .		2
94	Risk assessment of mortality from acute exposure to ambient fine particles based on the different toxicities of chemical compositions in China. Journal of Integrative Environmental Sciences, 2021, 18, 55-66.	1.0	2
95	Association of PM _{<sub>2.5</sub>} Reduction with Improved Kidney Function: A Nationwide Quasiexperiment among Chinese Adults. Health Data Science, 2022, 2022, .	1.1	2
96	PM _{&lt;sub>2.5</sub>} Air Pollution and Cardiovascular Disease-Associated Disability among Middle-Aged and Older Adults. Global Heart, 2022, 17, 41.	0.9	2
97	Upgrade of Mini-DDL applied in the radiation field measurement. , 2009, , .		1
98	Calibration of PM _{2.5} mass concentrations used in the Pittsburgh Aerosol Research and Inhalation Epidemiology Study. Atmospheric Environment, 2015, 115, 325-339.	1.9	1
99	Design of trigger test board for the Daya Bay neutrino experiment. , 2011, , .		0
100	Time interleaved ADCs for high speed high resolution data acquisition system. , 2013, , .		0
101	FADC electronics design for HPGc detector. , 2013, , .		0
102	Performance of Linear PSD Methods on $\hat{\mu}/\hat{\sigma}^3$ Discrimination for LaBr ₃ : Ce Scintillation Detectors with Different Sampling Properties. , 2019, , .		0
103	Quantitative Analysis of Energy Resolution and Pulse Shape Discrimination of CLYC Detector with Integrated Digitizers. , 2019, , .		0
104	Clinical Effects of the COVID-19 Pandemic Among the Uninfected Pregnant Women " 6 PLADs, China, 2019~2020. China CDC Weekly, 2021, 3, 199-206.	1.0	0
105	Association of Long-term Exposure to PM _{2.5} with Blood Lipids in the Chinese Population: Findings from a Longitudinal Quasi-experiment. ISEE Conference Abstracts, 2021, 2021, .	0.0	0
106	Estimating 2005-2019 NO ₂ Exposure with High Spatiotemporal Resolution in China Using an Ensemble Model. ISEE Conference Abstracts, 2021, 2021, .	0.0	0
107	Transcriptomics reveals the mechanisms of population susceptibility to blood glucose associated with short-term exposure to ambient fine and ultrafine particles. ISEE Conference Abstracts, 2021, 2021, .	0.0	0