Kai Zhang

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/7369084/publications.pdf

Version: 2024-02-01

75 papers	3,243 citations	201385 27 h-index	155451 55 g-index
78 all docs	78 docs citations	78 times ranked	4762 citing authors

#	Article	IF	Citations
1	Air pollution and health risks due to vehicle traffic. Science of the Total Environment, 2013, 450-451, 307-316.	3.9	457
2	Impact of meteorological factors on the COVID-19 transmission: A multi-city study in China. Science of the Total Environment, 2020, 726, 138513.	3.9	432
3	Daily Estimation of Ground-Level PM_{2.5} Concentrations over Beijing Using 3 km Resolution MODIS AOD. Environmental Science & Technology, 2015, 49, 12280-12288.	4.6	240
4	Optimizing Traffic Control to Reduce Fuel Consumption and Vehicular Emissions. Transportation Research Record, 2009, 2128, 105-113.	1.0	156
5	Assessing Heat Stress and Health among Construction Workers in a Changing Climate: A Review. International Journal of Environmental Research and Public Health, 2018, 15, 247.	1.2	137
6	Vehicle emissions in congestion: Comparison of work zone, rush hour and free-flow conditions. Atmospheric Environment, 2011, 45, 1929-1939.	1.9	136
7	What weather variables are important in predicting heat-related mortality? A new application of statistical learning methods. Environmental Research, 2014, 132, 350-359.	3.7	94
8	Deep learning PM2.5 concentrations with bidirectional LSTM RNN. Air Quality, Atmosphere and Health, 2019, 12, 411-423.	1.5	76
9	Comparing exposure metrics for classifying â€˜dangerous heatâ€™ in heat wave and health warning systems. Environment International, 2012, 46, 23-29.	4.8	61
10	Validating Satellite-Derived Land Surface Temperature with in Situ Measurements: A Public Health Perspective. Environmental Health Perspectives, 2013, 121, 925-931.	2.8	59
11	Impact of the 2011 heat wave on mortality and emergency department visits in Houston, Texas. Environmental Health, 2015, 14, 11.	1.7	58
12	Seasonal variation, formation mechanisms and potential sources of PM2.5 in two typical cities in the Central Plains Urban Agglomeration, China. Science of the Total Environment, 2019, 657, 657-670.	3.9	58
13	Airborne particulate matter, population mobility and COVID-19: a multi-city study in China. BMC Public Health, 2020, 20, 1585.	1.2	56
14	Traffic€related air pollution and the incidence of childhood central nervous system tumors: Texas, 2001â€“2009. Pediatric Blood and Cancer, 2015, 62, 1572-1578.	0.8	54
15	Near-road air pollutant concentrations of CO and PM2.5: A comparison of MOBILE6.2/CALINE4 and generalized additive models. Atmospheric Environment, 2010, 44, 1740-1748.	1.9	53
16	Forecasting the incidence of tuberculosis in China using the seasonal auto-regressive integrated moving average (SARIMA) model. Journal of Infection and Public Health, 2018, 11, 707-712.	1.9	51
17	Epigenetic age acceleration and metabolic syndrome in the coronary artery risk development in young adults study. Clinical Epigenetics, 2019, 11, 160.	1.8	48
18	Geostatistical exploration of spatial variation of summertime temperatures in the Detroit metropolitan region. Environmental Research, 2011, 111, 1046-1053.	3.7	42

#	Article	IF	Citations
19	Spatiotemporal analysis of heat and heat wave effects on elderly mortality in Texas, 2006â€“2011. Science of the Total Environment, 2016, 562, 845-851.	3.9	42
20	Impacts of cold weather on all-cause and cause-specific mortality in Texas, 1990â€“2011. Environmental Pollution, 2017, 225, 244-251.	3.7	37
21	Characteristics and source apportionment of fine haze aerosol in Beijing during the winter of 2013. Atmospheric Chemistry and Physics, 2018, 18, 2573-2584.	1.9	37
22	Predicting daily PM2.5 concentrations in Texas using high-resolution satellite aerosol optical depth. Science of the Total Environment, 2018, 631-632, 904-911.	3.9	36
23	Type 2 diabetes attributable to PM2.5: A global burden study from 1990 to 2019. Environment International, 2021, 156, 106725.	4.8	35
24	Fine particulate matter components and mortality in Greater Houston: Did the risk reduce from 2000 to 2011?. Science of the Total Environment, 2015, 538, 162-168.	3.9	32
25	Fine particulate matter pollution in North China: Seasonal-spatial variations, source apportionment, sector and regional transport contributions. Environmental Research, 2020, 184, 109368.	3.7	32
26	Temperature and Rain Moderate the Effect of Neighborhood Walkability on Walking Time for Seniors in Barcelona. International Journal of Environmental Research and Public Health, 2020, 17, 14.	1.2	32
27	Meteorological factors, governmental responses and COVID-19: Evidence from four European countries. Environmental Research, 2021, 194, 110596.	3.7	31
28	An Investigation into the Spatial Variability of Near-Surface Air Temperatures in the Detroit, Michigan, Metropolitan Region. Journal of Applied Meteorology and Climatology, 2012, 51, 1290-1304.	0.6	30
29	Characterizing spatial variability of air pollution from vehicle traffic around the Houston Ship Channel area. Atmospheric Environment, 2017, 161, 167-175.	1.9	30
30	Prediction and analysis of near-road concentrations using a reduced-form emission/dispersion model. Environmental Health, 2010, 9, 29.	1.7	29
31	Characterizing Spatial Patterns of Airborne Coarse Particulate (PM _{10â€“2.5}) Mass and Chemical Components in Three Cities: The Multi-Ethnic Study of Atherosclerosis. Environmental Health Perspectives, 2014, 122, 823-830.	2.8	29
32	Impact of probable interaction of low temperature and ambient fine particulate matter on the function of rats alveolar macrophages. Environmental Toxicology and Pharmacology, 2017, 49, 172-178.	2.0	28
33	Impacts of cold weather on emergency hospital admission in Texas, 2004â€“2013. Environmental Research, 2019, 169, 139-146.	3.7	28
34	Using Forecast and Observed Weather Data to Assess Performance of Forecast Products in Identifying Heat Waves and Estimating Heat Wave Effects on Mortality. Environmental Health Perspectives, 2014, 122, 912-918.	2.8	27
35	The 2011 heat wave in Greater Houston: Effects of land use on temperature. Environmental Research, 2014, 135, 81-87.	3.7	25
36	COPD rat model is more susceptible to cold stress and PM2.5 exposure and the underlying mechanism. Environmental Pollution, 2018, 241, 26-34.	3.7	24

#	Article	IF	Citations
37	Seasonal variations in the mass characteristics and optical properties of carbonaceous constituents of PM2.5 in six cities of North China. Environmental Pollution, 2021, 268, 115780.	3.7	23
38	Cold exposure, gut microbiota, and hypertension: A mechanistic study. Science of the Total Environment, 2022, 833, 155199.	3.9	23
39	Risks of developing breast and colorectal cancer in association with incomes and geographic locations in Texas: a retrospective cohort study. BMC Cancer, 2016, 16, 294.	1.1	22
40	Time allocation shifts and pollutant exposure due to traffic congestion: An analysis using the national human activity pattern survey. Science of the Total Environment, 2009, 407, 5493-5500.	3.9	20
41	Fine particulate matter components and emergency department visits among a privately insured population in Greater Houston. Science of the Total Environment, 2016, 566-567, 521-527.	3.9	20
42	Short-term associations of fine particulate matter components and emergency hospital admissions among a privately insured population in Greater Houston. Atmospheric Environment, 2016, 147, 369-375.	1.9	19
43	Spatiotemporal Variations of Ambient Concentrations of Trace Elements in a Highly Polluted Region of China. Journal of Geophysical Research D: Atmospheres, 2019, 124, 4186-4202.	1.2	19
44	Populationâ€Based Study of Traffică€Related Air Pollution and Obesity in Mexican Americans. Obesity, 2020, 28, 412-420.	1.5	17
45	A quantitative assessment of atmospheric emissions and spatial distribution of trace elements from natural sources in China. Environmental Pollution, 2020, 259, 113918.	3.7	17
46	Fine particulate matter (PM2.5/PM1.0) in Beijing, China: Variations and chemical compositions as well as sources. Journal of Environmental Sciences, 2022, 121, 187-198.	3.2	17
47	Maternal residential proximity to major roadways at delivery and childhood central nervous system tumors. Environmental Research, 2016, 146, 315-322.	3.7	16
48	Cold stress provokes lung injury in rats co-exposed to fine particulate matter and lipopolysaccharide. Ecotoxicology and Environmental Safety, 2019, 168, 9-16.	2.9	16
49	Interactive effects of cold spell and air pollution on outpatient visits for anxiety in three subtropical Chinese cities. Science of the Total Environment, 2022, 817, 152789.	3.9	16
50	Public Health Impact and Economic Costs of Volkswagenâ€™s Lack of Compliance with the United Statesâ€™ Emission Standards. International Journal of Environmental Research and Public Health, 2016, 13, 891.	1.2	15
51	Impact of high, low, and non-optimum temperatures on chronic kidney disease in a changing climate, 1990â€“2019: A global analysis. Environmental Research, 2022, 212, 113172.	3.7	14
52	A Case-Crossover Analysis of Indoor Heat Exposure on Mortality and Hospitalizations among the Elderly in Houston, Texas. Environmental Health Perspectives, 2020, 128, 127007.	2.8	13
53	Differences in environmental exposure assignment due to residential mobility among children with a central nervous system tumor: Texas, 1995â€“2009. Journal of Exposure Science and Environmental Epidemiology, 2017, 27, 41-46.	1.8	12
54	School Parks as a Community Health Resource: Use of Joint-Use Parks by Children before and during COVID-19 Pandemic. International Journal of Environmental Research and Public Health, 2021, 18, 9237.	1.2	11

#	Article	IF	Citations
55	Associations between the built environment and body mass index in the Mexican American Mano A Mano Cohort. Science of the Total Environment, 2019, 654, 456-462.	3.9	10
56	Heat effects among migrant and seasonal farmworkers: a case study in Colorado. Occupational and Environmental Medicine, 2016, 73, 324-328.	1.3	9
57	Health impacts and spatiotemporal variations of fine particulate and its typical toxic constituents in five urban agglomerations of China. Science of the Total Environment, 2022, 806, 151459.	3.9	9
58	Weather is not significantly correlated with destination-specific transport-related physical activity among adults: A large-scale temporally matched analysis. Preventive Medicine, 2017, 101, 133-136.	1.6	7
59	The Impact of Cold and Heat on Years of Life Lost in a Northwestern Chinese City with Temperate Continental Climate. International Journal of Environmental Research and Public Health, 2019, 16, 3529.	1.2	6
60	School proximity and census tract correlates of e-cigarette specialty retail outlets (vape shops) in central Texas. Preventive Medicine Reports, 2020, 18, 101079.	0.8	6
61	Human Responses and Adaptation in a Changing Climate: A Framework Integrating Biological, Psychological, and Behavioural Aspects. Life, 2021, 11, 895.	1.1	6
62	Impact of paternal education on epigenetic ageing in adolescence and mid-adulthood: a multi-cohort study in the USA and Mexico. International Journal of Epidemiology, 2022, 51, 870-884.	0.9	6
63	The association between drought and outpatient visits for respiratory diseases in four northwest cities of China. Climatic Change, 2021, 167, 1.	1.7	5
64	Significant but Spatiotemporal-Heterogeneous Health Risks Caused by Airborne Exposure to Multiple Toxic Trace Elements in China. Environmental Science & Technology, 2021, 55, 12818-12830.	4.6	5
65	Development of season-dependent land use regression models to estimate BC and PM1 exposure. Science of the Total Environment, 2021, 793, 148540.	3.9	5
66	Indoor solid fuel use and renal function among middle-aged and older adults: A national study in rural China. Environmental Research, 2022, 206, 112588.	3.7	5
67	An assessment of emission event trends within the Greater Houston area during 2003â€“2013. Air Quality, Atmosphere and Health, 2017, 10, 543-554.	1.5	4
68	The combined effect of ambient ozone exposure and toxic air releases on hospitalization for asthma among children in Harris County, Texas. International Journal of Environmental Health Research, 2018, 28, 358-378.	1.3	4
69	Health-Based Geographic Information Systems for Mapping and Risk Modeling of Infectious Diseases and COVID-19 to Support Spatial Decision-Making. Advances in Experimental Medicine and Biology, 2022, 1368, 167-188.	0.8	4
70	Leukocyte mitochondrial DNA copy number and built environment in Mexican Americans: a cross-sectional study. Scientific Reports, 2020, 10, 14988.	1.6	3
71	Accuracy of an estimated core temperature algorithm for agricultural workers. Archives of Environmental and Occupational Health, 2022, , 1-10.	0.7	2
72	Impact of Absolute Humidity and Temperature on Eczema. Biomedical and Environmental Sciences, 2021, 34, 61-65.	0.2	2

#	Article	IF	Citations
73	The probable roles of valsartan in alleviating chronic obstructive pulmonary disease following co-exposure to cold stress and fine particulate matter. Environmental Toxicology and Pharmacology, 2018, 60, 230-236.	2.0	1
74	Impact of Weaving Segment Configuration Designs on Driversâ€™ Acute Driving Stress: A Case Study on Houston Freeway Weaving Segments. International Journal of Civil Engineering, 2020, 18, 641-653.	0.9	1
75	Land use mix and leukocyte telomere length in Mexican Americans. Scientific Reports, 2021, 11, 19742.	1.6	1