

Junyu Zheng

List of Publications by Year in descending order

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81
papers

4,048
citations

101496

36
h-index

123376

61
g-index

85
all docs

85
docs citations

85
times ranked

3146
citing authors

#	ARTICLE	IF	CITATIONS
1	Direct identification of total and missing OH reactivities from light-duty gasoline vehicle exhaust in China based on LP-LIF measurement. <i>Journal of Environmental Sciences</i> , 2023, 133, 107-117.	3.2	2
2	Status and quality evaluation of precursor emission inventories for PM _{2.5} and ozone in China. <i>Chinese Science Bulletin</i> , 2022, 67, 1978-1994.	0.4	4
3	Near-real-time estimation of hourly open biomass burning emissions in China using multiple satellite retrievals. <i>Science of the Total Environment</i> , 2022, 817, 152777.	3.9	10
4	A meteorologically adjusted ensemble Kalman filter approach for inverting daily emissions: A case study in the Pearl River Delta, China. <i>Journal of Environmental Sciences</i> , 2022, 114, 233-248.	3.2	2
5	The impact of chlorine chemistry combined with heterogeneous N ₂ O ₅ reactions on air quality in China. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 3743-3762.	1.9	2
6	Environmental Controls to Soil Heavy Metal Pollution Vary at Multiple Scales in a Highly Urbanizing Region in Southern China. <i>Sensors</i> , 2022, 22, 4496.	2.1	5
7	Upgrading Emission Standards Inadvertently Increased OH Reactivity from Light-Duty Diesel Truck Exhaust in China: Evidence from Direct LP-LIF Measurement. <i>Environmental Science & Technology</i> , 2022, 56, 9968-9977.	4.6	1
8	Budget of nitrous acid (HONO) at an urban site in the fall season of Guangzhou, China. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 8951-8971.	1.9	12
9	Observation-based analysis of ozone production sensitivity for two persistent ozone episodes in Guangdong, China. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 8403-8416.	1.9	12
10	An updated model-ready emission inventory for Guangdong Province by incorporating big data and mapping onto multiple chemical mechanisms. <i>Science of the Total Environment</i> , 2021, 769, 144535.	3.9	35
11	Emission source-based ozone isopleth and isosurface diagrams and their significance in ozone pollution control strategies. <i>Journal of Environmental Sciences</i> , 2021, 105, 138-149.	3.2	6
12	Insight into the characteristics of carbonaceous aerosols at urban and regional sites in the downwind area of Pearl River Delta region, China. <i>Science of the Total Environment</i> , 2021, 778, 146251.	3.9	13
13	Road type-based driving cycle development and application to estimate vehicle emissions for passenger cars in Guangzhou. <i>Atmospheric Pollution Research</i> , 2021, 12, 101138.	1.8	6
14	A mass-balance-based emission inventory of non-methane volatile organic compounds (NMVOCs) for solvent use in China. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 13655-13666.	1.9	9
15	Variability in real-world emissions and fuel consumption by diesel construction vehicles and policy implications. <i>Science of the Total Environment</i> , 2021, 786, 147256.	3.9	19
16	A newly integrated dataset of volatile organic compounds (VOCs) source profiles and implications for the future development of VOCs profiles in China. <i>Science of the Total Environment</i> , 2021, 793, 148348.	3.9	69
17	High Gaseous Nitrous Acid (HONO) Emissions from Light-Duty Diesel Vehicles. <i>Environmental Science & Technology</i> , 2021, 55, 200-208.	4.6	29
18	Role of export industries on ozone pollution and its precursors in China. <i>Nature Communications</i> , 2020, 11, 5492.	5.8	30

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19	Insight into the Variability of the Nitrogen Isotope Composition of Vehicular NO _x in China. <i>Environmental Science & Technology</i> , 2020, 54, 14246-14253.	4.6	17
20	Characteristics of the source apportionment of primary and secondary inorganic PM _{2.5} in the Pearl River Delta region during 2015 by numerical modeling. <i>Environmental Pollution</i> , 2020, 267, 115418.	3.7	13
21	Characterization of VOC emissions from construction machinery and river ships in the Pearl River Delta of China. <i>Journal of Environmental Sciences</i> , 2020, 96, 138-150.	3.2	25
22	Characterization of particulate smoke and the potential chemical fingerprint of non-road construction equipment exhaust emission in China. <i>Science of the Total Environment</i> , 2020, 723, 137967.	3.9	25
23	A New Portable Instrument for Online Measurements of Formaldehyde: From Ambient to Mobile Emission Sources. <i>Environmental Science and Technology Letters</i> , 2020, 7, 292-297.	3.9	10
24	Quantifying the impact of daily mobility on errors in air pollution exposure estimation using mobile phone location data. <i>Environment International</i> , 2020, 141, 105772.	4.8	30
25	Measurement report: Important contributions of oxygenated compounds to emissions and chemistry of volatile organic compounds in urban air. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 14769-14785.	1.9	50
26	Modeling study of ozone source apportionment over the Pearl River Delta in 2015. <i>Environmental Pollution</i> , 2019, 253, 393-402.	3.7	48
27	Evolution of anthropogenic air pollutant emissions in Guangdong Province, China, from 2006 to 2015. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 11701-11719.	1.9	56
28	Regional discrepancies in spatiotemporal variations and driving forces of open crop residue burning emissions in China. <i>Science of the Total Environment</i> , 2019, 671, 536-547.	3.9	21
29	Anthropogenic atmospheric toxic metals emission inventory and its spatial characteristics in Guangdong province, China. <i>Science of the Total Environment</i> , 2019, 670, 1146-1158.	3.9	45
30	A Feasible Methodological Framework for Uncertainty Analysis and Diagnosis of Atmospheric Chemical Transport Models. <i>Environmental Science & Technology</i> , 2019, 53, 3110-3118.	4.6	15
31	Molecular characterization of polar organic aerosol constituents in off-road engine emissions using Fourier transform ion cyclotron resonance mass spectrometry (FT-ICR MS): implications for source apportionment. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 13945-13956.	1.9	21
32	Quantitative impacts of meteorology and precursor emission changes on the long-term trend of ambient ozone over the Pearl River Delta, China, and implications for ozone control strategy. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 12901-12916.	1.9	73
33	A Dynamic Dust Emission Allocation Method and Holiday Profiles Applied to Emission Processing for Improving Air Quality Model Performance. <i>Aerosol and Air Quality Research</i> , 2019, 19, 2531-2542.	0.9	3
34	Reconciling discrepancies in the source characterization of VOCs between emission inventories and receptor modeling. <i>Science of the Total Environment</i> , 2018, 628-629, 697-706.	3.9	14
35	Species-specified VOC emissions derived from a gridded study in the Pearl River Delta, China. <i>Scientific Reports</i> , 2018, 8, 2963.	1.6	19
36	Characteristics of inorganic aerosol formation over ammonia-poor and ammonia-rich areas in the Pearl River Delta region, China. <i>Atmospheric Environment</i> , 2018, 177, 120-131.	1.9	19

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37	Recent developments of anthropogenic air pollutant emission inventories in Guangdong province, China. <i>Science of the Total Environment</i> , 2018, 627, 1080-1092.	3.9	88
38	An optimized data fusion method and its application to improve lateral boundary conditions in winter for Pearl River Delta regional PM2.5 modeling, China. <i>Atmospheric Environment</i> , 2018, 180, 59-68.	1.9	5
39	Decadal changes in emissions of volatile organic compounds (VOCs) from on-road vehicles with intensified automobile pollution control: Case study in a busy urban tunnel in south China. <i>Environmental Pollution</i> , 2018, 233, 806-819.	3.7	74
40	Adjoint inversion of Chinese non-methane volatile organic compound emissions using space-based observations of formaldehyde and glyoxal. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 15017-15046.	1.9	46
41	Seasonal cycles of secondary organic aerosol tracers in rural Guangzhou, Southern China: The importance of atmospheric oxidants. <i>Environmental Pollution</i> , 2018, 240, 884-893.	3.7	44
42	Eighteen-year trends of local and non-local impacts to ambient PM10 in Hong Kong based on chemical speciation and source apportionment. <i>Atmospheric Research</i> , 2018, 214, 1-9.	1.8	13
43	Decadal evolution of ship emissions in China from 2004 to 2013 by using an integrated AIS-based approach and projection to 2040. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 6075-6093.	1.9	38
44	Sector-based VOCs emission factors and source profiles for the surface coating industry in the Pearl River Delta region of China. <i>Science of the Total Environment</i> , 2017, 583, 19-28.	3.9	78
45	A New Combined Stepwise-Based High-Order Decoupled Direct and Reduced-Form Method To Improve Uncertainty Analysis in PM2.5 Simulations. <i>Environmental Science & Technology</i> , 2017, 51, 3852-3859.	4.6	12
46	Proteins and Amino Acids in Fine Particulate Matter in Rural Guangzhou, Southern China: Seasonal Cycles, Sources, and Atmospheric Processes. <i>Environmental Science & Technology</i> , 2017, 51, 6773-6781.	4.6	58
47	Source contributions to PM2.5 in Guangdong province, China by numerical modeling: Results and implications. <i>Atmospheric Research</i> , 2017, 186, 63-71.	1.8	47
48	Demand-driven air pollutant emissions for a fast-developing region in China. <i>Applied Energy</i> , 2017, 204, 131-142.	5.1	52
49	How the OH reactivity affects the ozone production efficiency: case studies in Beijing and Heshan, China. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 7127-7142.	1.9	60
50	Reconstructed Light Extinction Coefficients of Fine Particulate Matter in Rural Guangzhou, Southern China. <i>Aerosol and Air Quality Research</i> , 2016, 16, 1981-1990.	0.9	15
51	Potential sources of nitrous acid (HONO) and their impacts on ozone: A WRF-Chem study in a polluted subtropical region. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 3645-3662.	1.2	84
52	Ambient Ozone Control in a Photochemically Active Region: Short-Term Despiking or Long-Term Attainment?. <i>Environmental Science & Technology</i> , 2016, 50, 5720-5728.	4.6	159
53	An AIS-based high-resolution ship emission inventory and its uncertainty in Pearl River Delta region, China. <i>Science of the Total Environment</i> , 2016, 573, 1-10.	3.9	94
54	Top-down estimates of benzene and toluene emissions in the Pearl River Delta and Hong Kong, China. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 3369-3382.	1.9	18

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55	Neutral polyfluoroalkyl substances in the atmosphere over the northern South China Sea. <i>Environmental Pollution</i> , 2016, 214, 449-455.	3.7	34
56	Numerical model to quantify biogenic volatile organic compound emissions: The Pearl River Delta region as a case study. <i>Journal of Environmental Sciences</i> , 2016, 46, 72-82.	3.2	13
57	Characterization of PM 2.5 and the major chemical components during a 1-year campaign in rural Guangzhou, Southern China. <i>Atmospheric Research</i> , 2016, 167, 208-215.	1.8	112
58	Concentrations and sources of non-methane hydrocarbons (NMHCs) from 2005 to 2013 in Hong Kong: A multi-year real-time data analysis. <i>Atmospheric Environment</i> , 2015, 103, 196-206.	1.9	84
59	A refined 2010-based VOC emission inventory and its improvement on modeling regional ozone in the Pearl River Delta Region, China. <i>Science of the Total Environment</i> , 2015, 514, 426-438.	3.9	66
60	Speciated OVOC and VOC emission inventories and their implications for reactivity-based ozone control strategy in the Pearl River Delta region, China. <i>Science of the Total Environment</i> , 2015, 530-531, 393-402.	3.9	144
61	Modeling inorganic nitrogen deposition in Guangdong province, China. <i>Atmospheric Environment</i> , 2015, 109, 147-160.	1.9	23
62	Exposure assessment, chemical characterization and source identification of PM2.5 for school children and industrial downwind residents in Guangzhou, China. <i>Environmental Geochemistry and Health</i> , 2014, 36, 385-397.	1.8	15
63	Ozone changes in response to the heavy-duty diesel truck control in the Pearl River Delta. <i>Atmospheric Environment</i> , 2014, 88, 269-274.	1.9	8
64	Scienceâ€™ policy interplay: Air quality management in the Pearl River Delta region and Hong Kong. <i>Atmospheric Environment</i> , 2013, 76, 3-10.	1.9	102
65	Industrial sector-based volatile organic compound (VOC) source profiles measured in manufacturing facilities in the Pearl River Delta, China. <i>Science of the Total Environment</i> , 2013, 456-457, 127-136.	3.9	151
66	Emission trends and source characteristics of SO2, NOx, PM10 and VOCs in the Pearl River Delta region from 2000 to 2009. <i>Atmospheric Environment</i> , 2013, 76, 11-20.	1.9	98
67	Importance of NOx control for peak ozone reduction in the Pearl River Delta region. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 9428-9443.	1.2	94
68	The Pearl River Delta Regional Air Quality Monitoring Network - Regional Collaborative Efforts on Joint Air Quality Management. <i>Aerosol and Air Quality Research</i> , 2013, 13, 1582-1597.	0.9	34
69	High resolution of black carbon and organic carbon emissions in the Pearl River Delta region, China. <i>Science of the Total Environment</i> , 2012, 438, 189-200.	3.9	29
70	Site location optimization of regional air quality monitoring network in china: methodology and case study. <i>Journal of Environmental Monitoring</i> , 2011, 13, 3185.	2.1	25
71	Mercury emission inventory and its spatial characteristics in the Pearl River Delta region, China. <i>Science of the Total Environment</i> , 2011, 412-413, 214-222.	3.9	45
72	Assessment of motor vehicle emission control policies using Model-3/CMAQ model for the Pearl River Delta region, China. <i>Atmospheric Environment</i> , 2011, 45, 1740-1751.	1.9	70

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73	Trends, temporal and spatial characteristics, and uncertainties in biomass burning emissions in the Pearl River Delta, China. <i>Atmospheric Environment</i> , 2011, 45, 4051-4059.	1.9	102
74	Development of an emission processing system for the Pearl River Delta Regional air quality modeling using the SMOKE model: Methodology and evaluation. <i>Atmospheric Environment</i> , 2011, 45, 5079-5089.	1.9	40
75	Ground-level ozone in the Pearl River Delta region: Analysis of data from a recently established regional air quality monitoring network. <i>Atmospheric Environment</i> , 2010, 44, 814-823.	1.9	164
76	Temporal, spatial characteristics and uncertainty of biogenic VOC emissions in the Pearl River Delta region, China. <i>Atmospheric Environment</i> , 2010, 44, 1960-1969.	1.9	95
77	Road-Network-Based Spatial Allocation of On-Road Mobile Source Emissions in the Pearl River Delta Region, China, and Comparisons with Population-Based Approach. <i>Journal of the Air and Waste Management Association</i> , 2009, 59, 1405-1416.	0.9	32
78	A highly resolved temporal and spatial air pollutant emission inventory for the Pearl River Delta region, China and its uncertainty assessment. <i>Atmospheric Environment</i> , 2009, 43, 5112-5122.	1.9	399
79	Speciated VOC Emission Inventory and Spatial Patterns of Ozone Formation Potential in the Pearl River Delta, China. <i>Environmental Science & Technology</i> , 2009, 43, 8580-8586.	4.6	224
80	Probabilistic Analysis of Driving Cycle-Based Highway Vehicle Emission Factors. <i>Environmental Science & Technology</i> , 2002, 36, 5184-5191.	4.6	41
81	Quantification of Variability and Uncertainty in Air Pollutant Emission Inventories: Method and Case Study for Utility NO _x Emissions. <i>Journal of the Air and Waste Management Association</i> , 2002, 52, 1083-1095.	0.9	46