

Huan Liu

List of Publications by Year in descending order

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68
papers

5,186
citations

109321

35
h-index

95266

68
g-index

92
all docs

92
docs citations

92
times ranked

4214
citing authors

#	ARTICLE	IF	CITATIONS
1	Anthropogenic emission inventories in China: a review. <i>National Science Review</i> , 2017, 4, 834-866.	9.5	580
2	On-road vehicle emissions and their control in China: A review and outlook. <i>Science of the Total Environment</i> , 2017, 574, 332-349.	8.0	424
3	Ground-level ozone pollution and its health impacts in China. <i>Atmospheric Environment</i> , 2018, 173, 223-230.	4.1	293
4	Emission inventory of primary pollutants and chemical speciation in 2010 for the Yangtze River Delta region, China. <i>Atmospheric Environment</i> , 2013, 70, 39-50.	4.1	286
5	Health and climate impacts of ocean-going vessels in East Asia. <i>Nature Climate Change</i> , 2016, 6, 1037-1041.	18.8	272
6	Delaying precipitation and lightning by air pollution over the Pearl River Delta. Part I: Observational analyses. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 6472-6488.	3.3	212
7	Real-world fuel consumption and CO ₂ emissions of urban public buses in Beijing. <i>Applied Energy</i> , 2014, 113, 1645-1655.	10.1	197
8	Assessment of vehicle emission programs in China during 1998–2013: Achievement, challenges and implications. <i>Environmental Pollution</i> , 2016, 214, 556-567.	7.5	164
9	Energy consumption and CO ₂ emission impacts of vehicle electrification in three developed regions of China. <i>Energy Policy</i> , 2012, 48, 537-550.	8.8	159
10	Historic and future trends of vehicle emissions in Beijing, 1998–2020: A policy assessment for the most stringent vehicle emission control program in China. <i>Atmospheric Environment</i> , 2014, 89, 216-229.	4.1	159
11	Real-world fuel consumption and CO ₂ (carbon dioxide) emissions by driving conditions for light-duty passenger vehicles in China. <i>Energy</i> , 2014, 69, 247-257.	8.8	143
12	Declining frequency of summertime local-scale precipitation over eastern China from 1970 to 2010 and its potential link to aerosols. <i>Geophysical Research Letters</i> , 2017, 44, 5700-5708.	4.0	113
13	Characteristics of Diesel Truck Emission in China Based on Portable Emissions Measurement Systems. <i>Environmental Science & Technology</i> , 2009, 43, 9507-9511.	10.0	95
14	An updated emission inventory of vehicular VOCs and IVOCs in China. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 12709-12724.	4.9	91
15	VOC from Vehicular Evaporation Emissions: Status and Control Strategy. <i>Environmental Science & Technology</i> , 2015, 49, 14424-14431.	10.0	89
16	Aerosol-induced changes in the vertical structure of precipitation: a perspective of TRMM precipitation radar. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 13329-13343.	4.9	88
17	Impacts of shipping emissions on PM _{2.5} pollution in China. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 15811-15824.	4.9	87
18	The impact of marine shipping and its DECA control on air quality in the Pearl River Delta, China. <i>Science of the Total Environment</i> , 2018, 625, 1476-1485.	8.0	83

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19	Source apportionment of PM _{2.5} in Guangzhou combining observation data analysis and chemical transport model simulation. <i>Atmospheric Environment</i> , 2015, 116, 262-271.	4.1	82
20	Emission controls and changes in air quality in Guangzhou during the Asian Games. <i>Atmospheric Environment</i> , 2013, 76, 81-93.	4.1	81
21	Multi-sensor quantification of aerosol-induced variability in warm clouds over eastern China. <i>Atmospheric Environment</i> , 2015, 113, 1-9.	4.1	80
22	A big data approach to improving the vehicle emission inventory in China. <i>Nature Communications</i> , 2020, 11, 2801.	12.8	80
23	Emissions and health impacts from global shipping embodied in USâ€™China bilateral trade. <i>Nature Sustainability</i> , 2019, 2, 1027-1033.	23.7	78
24	Development of PM _{2.5} and NO ₂ models in a LUR framework incorporating satellite remote sensing and air quality model data in Pearl River Delta region, China. <i>Environmental Pollution</i> , 2017, 226, 143-153.	7.5	70
25	Characteristics of marine shipping emissions at berth: profiles for particulate matter and volatile organic compounds. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 9527-9545.	4.9	67
26	Historical evaluation of vehicle emission control in Guangzhou based on a multi-year emission inventory. <i>Atmospheric Environment</i> , 2013, 76, 32-42.	4.1	66
27	Characteristics of On-road Diesel Vehicles: Black Carbon Emissions in Chinese Cities Based on Portable Emissions Measurement. <i>Environmental Science & Technology</i> , 2015, 49, 13492-13500.	10.0	57
28	National- to port-level inventories of shipping emissions in China. <i>Environmental Research Letters</i> , 2017, 12, 114024.	5.2	56
29	PM _{2.5} emissions from light-duty gasoline vehicles in Beijing, China. <i>Science of the Total Environment</i> , 2014, 487, 521-527.	8.0	52
30	Comparison of Vehicle Activity and Emission Inventory between Beijing and Shanghai. <i>Journal of the Air and Waste Management Association</i> , 2007, 57, 1172-1177.	1.9	50
31	Intermediate-Volatility Organic Compound Emissions from Nonroad Construction Machinery under Different Operation Modes. <i>Environmental Science & Technology</i> , 2019, 53, 13832-13840.	10.0	50
32	Energy use of, and CO ₂ emissions from Chinaâ€™s urban passenger transportation sector â€™ Carbon mitigation scenarios upon the transportation mode choices. <i>Transportation Research, Part A: Policy and Practice</i> , 2013, 53, 53-67.	4.2	49
33	Declining Summertime Localâ€™Scale Precipitation Frequency Over China and the United States, 1981â€™2012: The Disparate Roles of Aerosols. <i>Geophysical Research Letters</i> , 2019, 46, 13281-13289.	4.0	48
34	Trade-linked shipping CO ₂ emissions. <i>Nature Climate Change</i> , 2021, 11, 945-951.	18.8	43
35	Climatology of cloud-base height from long-term radiosonde measurements in China. <i>Advances in Atmospheric Sciences</i> , 2018, 35, 158-168.	4.3	39
36	Shipping emission forecasts and cost-benefit analysis of China ports and key regionsâ€™ control. <i>Environmental Pollution</i> , 2018, 236, 49-59.	7.5	39

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37	Vehicular volatile organic compounds losses due to refueling and diurnal process in China: 2010–2050. <i>Journal of Environmental Sciences</i> , 2015, 33, 88-96.	6.1	38
38	How ethanol and gasoline formula changes evaporative emissions of the vehicles. <i>Applied Energy</i> , 2018, 222, 584-594.	10.1	38
39	Ship emissions around China under gradually promoted control policies from 2016 to 2019. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 13835-13853.	4.9	37
40	Compliance and port air quality features with respect to ship fuel switching regulation: a field observation campaign, SEISO-Bohai. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 4899-4916.	4.9	36
41	Chemical characterization of PM 2.5 emitted from on-road heavy-duty diesel trucks in China. <i>Atmospheric Environment</i> , 2015, 122, 885-891.	4.1	35
42	Analysis of the impacts of fuel sulfur on vehicle emissions in China. <i>Fuel</i> , 2008, 87, 3147-3154.	6.4	33
43	Chemical characteristics of fine particulate matter emitted from commercial cooking. <i>Frontiers of Environmental Science and Engineering</i> , 2016, 10, 559-568.	6.0	33
44	Declining diurnal temperature range in the North China Plain related to environmental changes. <i>Climate Dynamics</i> , 2019, 52, 6109-6119.	3.8	33
45	Traffic and emission simulation in China based on statistical methodology. <i>Atmospheric Environment</i> , 2011, 45, 1154-1161.	4.1	26
46	Reductions in sulfur pollution in the Pearl River Delta region, China: Assessing the effectiveness of emission controls. <i>Atmospheric Environment</i> , 2013, 76, 113-124.	4.1	26
47	Warming effect of dust aerosols modulated by overlapping clouds below. <i>Atmospheric Environment</i> , 2017, 166, 393-402.	4.1	23
48	Identifying the effect of vehicle operating history on vehicle running emissions. <i>Atmospheric Environment</i> , 2012, 59, 22-29.	4.1	20
49	How aging process changes characteristics of vehicle emissions? A review. <i>Critical Reviews in Environmental Science and Technology</i> , 2020, 50, 1796-1828.	12.8	20
50	A review and evaluation of nonroad diesel mobile machinery emission control in China. <i>Journal of Environmental Sciences</i> , 2023, 123, 30-40.	6.1	19
51	Characterization and source apportionment of marine aerosols over the East China Sea. <i>Science of the Total Environment</i> , 2019, 651, 2679-2688.	8.0	17
52	Using Portable Emission Measurement Systems for Transportation Emissions Studies. <i>Transportation Research Record</i> , 2010, 2158, 54-60.	1.9	16
53	The significant impacts on traffic and emissions of ferrying children to school in Beijing. <i>Transportation Research, Part D: Transport and Environment</i> , 2016, 47, 265-275.	6.8	16
54	Impacts of climate change and emissions on atmospheric oxidized nitrogen deposition over East Asia. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 887-900.	4.9	14

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55	The roles of scientific research and stakeholder engagement for evidence-based policy formulation on shipping emissions control in Hong Kong. <i>Journal of Environmental Management</i> , 2018, 223, 49-56.	7.8	12
56	Roles of Semivolatile/Intermediateâ€Volatility Organic Compounds on SOA Formation Over China During a Pollution Episode: Sensitivity Analysis and Implications for Future Studies. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2020JD033999.	3.3	12
57	China keeps carrying forward the key special project of â€Air Pollution Causes and Controlâ€. <i>Frontiers of Environmental Science and Engineering</i> , 2016, 10, 1.	6.0	8
58	Road freight emission in China: From supply chain perspective. <i>Environmental Pollution</i> , 2021, 285, 117511.	7.5	8
59	Assessment of regional air quality by a concentration-dependent Pollution Permeation Index. <i>Scientific Reports</i> , 2016, 6, 34891.	3.3	7
60	Declining hailstorm frequency in China during 1961â€2015 and its potential influential factors. <i>International Journal of Climatology</i> , 2018, 38, 4116-4126.	3.5	7
61	Neighborhood form and CO2 emission: evidence from 23 neighborhoods in Jinan, China. <i>Frontiers of Environmental Science and Engineering</i> , 2014, 8, 79-88.	6.0	5
62	Evaluation of the VOC pollution pattern and emission characteristics during the Beijing resurgence of COVID-19 in summer 2020 based on the measurement of PTR-ToF-MS. <i>Environmental Research Letters</i> , 2022, 17, 024002.	5.2	5
63	Impact of Vehicle Development and Fuel Quality on Exhaust Nanoparticle Emissions of Traffic. <i>Environmental Science & Technology</i> , 2013, 47, 130715120557004.	10.0	4
64	The Construction and Application of a Multipoint Sampling System for Vehicle Exhaust Plumes. <i>Aerosol and Air Quality Research</i> , 2017, 17, 1705-1716.	2.1	4
65	Year-round changes in tropospheric nitrogen dioxide caused by COVID-19 in China using satellite observation. <i>Journal of Environmental Sciences</i> , 2023, 132, 162-168.	6.1	4
66	Constraining emission estimates of carbon monoxide using a perturbed emissions ensemble with observations: a focus on Beijing. <i>Air Quality, Atmosphere and Health</i> , 2021, 14, 1587-1603.	3.3	2
67	Variation of Particles in the Exhaust Plume of Gasoline Direct Injection Vehicles Based on a Multipoint Sampling System: Concentrations, Components, and Numbers. <i>ACS ES&T Engineering</i> , 2022, 2, 1435-1444.	7.6	2
68	Potential Impacts of Aerosol on Diurnal Variation of Precipitation in Autumn Over the Sichuan Basin, China. <i>Journal of Geophysical Research D: Atmospheres</i> , 2022, 127, .	3.3	2