

Huan Liu

List of Publications by Year in descending order

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81
papers

5,244
citations

101384

36
h-index

88477

70
g-index

84
all docs

84
docs citations

84
times ranked

4290
citing authors

#	ARTICLE	IF	CITATIONS
1	A review and evaluation of nonroad diesel mobile machinery emission control in China. <i>Journal of Environmental Sciences</i> , 2023, 123, 30-40.	3.2	19
2	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.	3.2	4
3	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.	2.2	5
4	Impacts of vehicle emission on air quality and human health in China. <i>Science of the Total Environment</i> , 2022, 813, 152655.	3.9	39
5	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.	3.7	2
6	Primary organic gas emissions in vehicle cold start events: Rates, compositions and temperature effects. <i>Journal of Hazardous Materials</i> , 2022, 435, 128979.	6.5	14
7	Improving NO _x emission estimates in Beijing using network observations and a perturbed emissions ensemble. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 8617-8637.	1.9	1
8	The 2020 China report of the Lancet Countdown on health and climate change. <i>Lancet Public Health</i> , The, 2021, 6, e64-e81.	4.7	106
9	A gridded emission inventory of semi-volatile and intermediate volatility organic compounds in China. <i>Science of the Total Environment</i> , 2021, 761, 143295.	3.9	27
10	THUBrachy: fast Monte Carlo dose calculation tool accelerated by heterogeneous hardware for high-dose-rate brachytherapy. <i>Nuclear Science and Techniques/Hewuli</i> , 2021, 32, 1.	1.3	4
11	Roles of Semivolatile/Intermediate 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.	1.2	12
12	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.	1.5	2
13	Local and regional contributions to PM _{2.5} in the Beijing 2022 Winter Olympics infrastructure areas during haze episodes. <i>Frontiers of Environmental Science and Engineering</i> , 2021, 15, 1.	3.3	12
14	Ambient marine shipping emissions determined by vessel operation mode along the East China Sea. <i>Science of the Total Environment</i> , 2021, 769, 144713.	3.9	14
15	Road freight emission in China: From supply chain perspective. <i>Environmental Pollution</i> , 2021, 285, 117511.	3.7	8
16	Ship emissions around China under gradually promoted control policies from 2016 to 2019. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 13835-13853.	1.9	37
17	Molecular characterization of atmospheric particulate organosulfates in a port environment using ultrahigh resolution mass spectrometry: Identification of traffic emissions. <i>Journal of Hazardous Materials</i> , 2021, 419, 126431.	6.5	7
18	Measurement and minutely-resolved source apportionment of ambient VOCs in a corridor city during 2019 China International Import Expo episode. <i>Science of the Total Environment</i> , 2021, 798, 149375.	3.9	9

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19	Primary organic gas emissions from gasoline vehicles in China: Factors, composition and trends. <i>Environmental Pollution</i> , 2021, 290, 117984.	3.7	28
20	Trade-linked shipping CO ₂ emissions. <i>Nature Climate Change</i> , 2021, 11, 945-951.	8.1	43
21	How aging process changes characteristics of vehicle emissions? A review. <i>Critical Reviews in Environmental Science and Technology</i> , 2020, 50, 1796-1828.	6.6	20
22	Source-Receiver Relationship Revealed by the Halted Traffic and Aggravated Haze in Beijing during the COVID-19 Lockdown. <i>Environmental Science & Technology</i> , 2020, 54, 15660-15670.	4.6	83
23	Alcoholysis of Ball-Milled Corn Stover: The Enhanced Conversion of Carbohydrates into Biobased Chemicals over Combination Catalysts of [Bmim-SO ₃ H][HSO ₄] and Al ₂ (SO ₄) ₃ . <i>Energy & Fuels</i> , 2020, 34, 7085-7093.	2.5	14
24	A big data approach to improving the vehicle emission inventory in China. <i>Nature Communications</i> , 2020, 11, 2801.	5.8	80
25	Air quality and health impacts from using ethanol blended gasoline fuels in China. <i>Atmospheric Environment</i> , 2020, 228, 117396.	1.9	15
26	VOCs evaporative emissions from vehicles in China: Species characteristics of different emission processes. <i>Environmental Science and Ecotechnology</i> , 2020, 1, 100002.	6.7	26
27	Assessment of ethanol blended fuels for gasoline vehicles in China: Fuel economy, regulated gaseous pollutants and particulate matter. <i>Environmental Pollution</i> , 2019, 253, 731-740.	3.7	36
28	Digital Metamaterials: Designing 3D Digital Metamaterial for Elastic Waves: From Elastic Wave Polarizer to Vibration Control (Adv. Sci. 16/2019). <i>Advanced Science</i> , 2019, 6, 1970097.	5.6	0
29	Intermediate-Volatility Organic Compound Emissions from Nonroad Construction Machinery under Different Operation Modes. <i>Environmental Science & Technology</i> , 2019, 53, 13832-13840.	4.6	50
30	Emissions and health impacts from global shipping embodied in US-China bilateral trade. <i>Nature Sustainability</i> , 2019, 2, 1027-1033.	11.5	78
31	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.	1.9	36
32	Introduction to the special issue "In-depth study of air pollution sources and processes within Beijing and its surrounding region (APHH-Beijing)". <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 7519-7546.	1.9	95
33	Mechanochemical deconstruction of lignocellulosic cell wall polymers with ball-milling. <i>Bioresource Technology</i> , 2019, 286, 121364.	4.8	64
34	Impacts of climate change and emissions on atmospheric oxidized nitrogen deposition over East Asia. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 887-900.	1.9	14
35	Emission factors and environmental implication of organic pollutants in PM emitted from various vessels in China. <i>Atmospheric Environment</i> , 2019, 200, 302-311.	1.9	40
36	Characterization and source apportionment of marine aerosols over the East China Sea. <i>Science of the Total Environment</i> , 2019, 651, 2679-2688.	3.9	17

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37	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.	3.9	83
38	How ethanol and gasoline formula changes evaporative emissions of the vehicles. <i>Applied Energy</i> , 2018, 222, 584-594.	5.1	38
39	Shipping emission forecasts and cost-benefit analysis of China ports and key regions's control. <i>Environmental Pollution</i> , 2018, 236, 49-59.	3.7	39
40	Ground-level ozone pollution and its health impacts in China. <i>Atmospheric Environment</i> , 2018, 173, 223-230.	1.9	293
41	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.	1.9	67
42	Impacts of shipping emissions on PM _{2.5} pollution in China. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 15811-15824.	1.9	87
43	Estimation of PM _{2.5} mortality burden in China with new exposure estimation and local concentration-response function. <i>Environmental Pollution</i> , 2018, 243, 1710-1718.	3.7	58
44	Corrigendum to Anthropogenic emission inventories in China: a review. <i>National Science Review</i> , 2018, 5, 603-603.	4.6	12
45	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.	3.8	12
46	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.	3.7	70
47	Dose conversion coefficients for Chinese reference adult male and female voxel phantoms from idealized neutron exposures. <i>Journal of Nuclear Science and Technology</i> , 2017, 54, 921-932.	0.7	0
48	Monte Carlo calculation of conversion coefficients for dose estimation in mammography based on a 3D detailed breast model. <i>Medical Physics</i> , 2017, 44, 2503-2514.	1.6	16
49	National- to port-level inventories of shipping emissions in China. <i>Environmental Research Letters</i> , 2017, 12, 114024.	2.2	56
50	On-road vehicle emissions and their control in China: A review and outlook. <i>Science of the Total Environment</i> , 2017, 574, 332-349.	3.9	424
51	Anthropogenic emission inventories in China: a review. <i>National Science Review</i> , 2017, 4, 834-866.	4.6	580
52	An updated emission inventory of vehicular VOCs and IVOCs in China. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 12709-12724.	1.9	91
53	The Construction and Application of a Multipoint Sampling System for Vehicle Exhaust Plumes. <i>Aerosol and Air Quality Research</i> , 2017, 17, 1705-1716.	0.9	4
54	Assessment of regional air quality by a concentration-dependent Pollution Permeation Index. <i>Scientific Reports</i> , 2016, 6, 34891.	1.6	7

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55	Chemical characteristics of fine particulate matter emitted from commercial cooking. <i>Frontiers of Environmental Science and Engineering</i> , 2016, 10, 559-568.	3.3	33
56	Assessment of vehicle emission programs in China during 1998–2013: Achievement, challenges and implications. <i>Environmental Pollution</i> , 2016, 214, 556-567.	3.7	164
57	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.	3.2	16
58	Health and climate impacts of ocean-going vessels in East Asia. <i>Nature Climate Change</i> , 2016, 6, 1037-1041.	8.1	272
59	China keeps carrying forward the key special project of “Air Pollution Causes and Control”. <i>Frontiers of Environmental Science and Engineering</i> , 2016, 10, 1.	3.3	8
60	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.	3.2	38
61	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.	1.9	82
62	Chemical characterization of PM _{2.5} emitted from on-road heavy-duty diesel trucks in China. <i>Atmospheric Environment</i> , 2015, 122, 885-891.	1.9	35
63	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.	4.6	57
64	VOC from Vehicular Evaporation Emissions: Status and Control Strategy. <i>Environmental Science & Technology</i> , 2015, 49, 14424-14431.	4.6	89
65	Neighborhood form and CO ₂ emission: evidence from 23 neighborhoods in Jinan, China. <i>Frontiers of Environmental Science and Engineering</i> , 2014, 8, 79-88.	3.3	5
66	Real-world fuel consumption and CO ₂ emissions of urban public buses in Beijing. <i>Applied Energy</i> , 2014, 113, 1645-1655.	5.1	197
67	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.	1.9	159
68	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.	4.5	143
69	PM _{2.5} emissions from light-duty gasoline vehicles in Beijing, China. <i>Science of the Total Environment</i> , 2014, 487, 521-527.	3.9	52
70	Energy use of, and CO ₂ emissions from China’s urban passenger transportation sector – Carbon mitigation scenarios upon the transportation mode choices. <i>Transportation Research, Part A: Policy and Practice</i> , 2013, 53, 53-67.	2.0	49
71	Impact of Vehicle Development and Fuel Quality on Exhaust Nanoparticle Emissions of Traffic. <i>Environmental Science & Technology</i> , 2013, 47, 130715120557004.	4.6	4
72	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.	1.9	286

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73	Historical evaluation of vehicle emission control in Guangzhou based on a multi-year emission inventory. Atmospheric Environment, 2013, 76, 32-42.	1.9	66
74	Reductions in sulfur pollution in the Pearl River Delta region, China: Assessing the effectiveness of emission controls. Atmospheric Environment, 2013, 76, 113-124.	1.9	26
75	Emission controls and changes in air quality in Guangzhou during the Asian Games. Atmospheric Environment, 2013, 76, 81-93.	1.9	81
76	Energy consumption and CO2 emission impacts of vehicle electrification in three developed regions of China. Energy Policy, 2012, 48, 537-550.	4.2	159
77	Identifying the effect of vehicle operating history on vehicle running emissions. Atmospheric Environment, 2012, 59, 22-29.	1.9	20
78	Traffic and emission simulation in China based on statistical methodology. Atmospheric Environment, 2011, 45, 1154-1161.	1.9	26
79	Characteristics of Diesel Truck Emission in China Based on Portable Emissions Measurement Systems. Environmental Science & Technology, 2009, 43, 9507-9511.	4.6	95
80	Analysis of the impacts of fuel sulfur on vehicle emissions in China. Fuel, 2008, 87, 3147-3154.	3.4	33
81	Comparison of Vehicle Activity and Emission Inventory between Beijing and Shanghai. Journal of the Air and Waste Management Association, 2007, 57, 1172-1177.	0.9	50