Hongliang Zhang Ph.D., P.E., Professor

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Education & Professional Experience

- ✓ **Ph.D.** Environmental Engineering, Texas A&M University, 2012.05
- ✓ **M.S.** Thermal Engineering, Tsinghua University, 2008.07
- ✓ **B.S.** Environmental Engineering, Tsinghua University, 2006.07
- ✓ Professor, Fudan University, 2019.5-present
- ✓ Assistant Professor, Louisiana State University, 2014.8-2019.5
- ✓ Postdoc, University of California, Davis, 2012.6-2014.7

Research Interests

Interactions of aerosols with weather/climate; Mass transfer between air, water and soil interfaces; Regional/global air quality/climate modeling; Source apportionment of ozone and particulate matter; Air pollution epidemiological analysis based on chemical models/AI.

Professional Activities

- ✓ Registered Professional Engineer (P.E.), Louisiana, License Number: 40306.
- ✓ **Editor and Board Member of** Science of the Total Environment, Current Pollution Reports, Chemosphere, Engineering, Frontiers of Environmental Science and Engineering.
- ✓ **Membership of** Chinese-American Professors in Environmental Engineering and Science (CAPEES), The China India Association of Atmospheric Scientists, American Association for Aerosol Research (AAAR), AGU, EGU, ACS, and AOGS.

Selected publications (A total of 150+, Google Scholar citation 11000+，

https://scholar.google.com/citations?user=nAgyiCIAAAAJ&hl=en)

1. Shuai Wang, …, **Hongliang Zhang**#. 2024. Diagnosing drivers of PM2.5 simulation biases in China from meteorology, chemical composition, and emission sources using an efficient machine learning method. Geoscientific Model Development 17 (9), 3617-3629.

2. Shengqiang Zhu, …, **Hongliang Zhang**#. 2023. Consumption Based Source Apportionment Indicates Different Regional Contributions to O3 Concentrations and Health Effects. Engineering 28, 130-138.

3. Yan Li, …, **Hongliang Zhang**#, Yele Sun#. 2023. Significant Reductions in Secondary Aerosols after the Three-Year Action Plan in Beijing Summer. Environmental Science & Technology, 57, 42, 15945–15955.

4. Mingjie Kang, Jie Zhang, **Hongliang Zhang**#, Qi Ying#. 2021. On the Relevancy of Observed Ozone Increase during COVID-19 Lockdown to Summertime Ozone and PM2. 5 Control Policies in China, Environmental Science and Technology Letters, 8(4): 289-294.

5. Pengfei Wang, …, **Hongliang Zhang**#. 2020. Severe air pollution events not avoided by reduced anthropogenic activities during COVID-19 outbreak, Resources, Conservation and Recycling, 158: 104814.

6. **Hongliang Zhang**[#], …, Qi Ying[#], Michael Kleeman. Modeling atmospheric age distribution of elemental carbon using a regional age-resolved particle representation framework. Environmental Science & Technology, Environmental science & technology 53 (1), 270-278.

7. *Hao Guo*, …, **Hongliang Zhang**[#]. 2018. Source contributions and potential reductions to health effects of particulate matter in India. Atmos. Chem. Phys., 18, 15219-15229.