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## 学习和工作经历 EDUCATION & EMPLOYMENT

- 2017- **副教授 Associate Professor**  
南京大学大气科学学院 School of Atmospheric Sciences, Nanjing University
- 2014-2017 **助理研究员 Research Assistant Professor**  
南京大学大气科学学院 School of Atmospheric Sciences, Nanjing University
- 2009-2014 **环境科学博士 Doctor of Philosophy**  
北京大学环境科学与工程学院 College of Environmental Sciences and Engineering, Peking University
- 2005-2009 **环境工程学士 Bachelor of Engineering**  
上海交通大学环境科学与工程学院 School of Environmental Science and Engineering, Shanghai Jiao Tong University

## 主要研究方向 AREAS OF RESEARCH

- 区域空气质量模型 WRF-Chem chemical transport modelling, CALPUFF Lagrangian puff modelling
- 气溶胶气候效应 Estimation of radiative effects caused by atmospheric aerosol
- 高分辨率排放清单发展 Development of high-resolution emission inventories

## 代表性成果 PUBLICATIONS

### 2019

Liu, M.X.<sup>#</sup>, **Huang, X.<sup>#</sup>**, Song, Y., et al.: Ammonia emission control in China would mitigate haze pollution and nitrogen deposition, but worsen acid rain, Proc. Natl. Acad. Sci. USA, 116, 7760-7765, 10.1073/pnas.1814880116, 2019. [\[high-impact paper\]](#)

Wang, Z., **Huang, X.\***, and Ding, A.: Optimization of vertical grid setting for air quality modelling in China considering the effect of aerosol-boundary layer interaction, Atmos. Environ., 210, 1-13, 2019a.

Wang, N., Lyu, X., Deng, X., **Huang, X.\***, Jiang, F., and Ding, A.: Aggravating O<sub>3</sub> pollution due to NO<sub>x</sub> emission control in eastern China, Sci. Total Environ., 677, 732-744, 2019b.

Ding, Q., Sun, J.\*, **Huang, X.\***, Ding, A., Zou, J., Yang, X., and Fu, C.: Impacts of black carbon on the formation of advection-radiation fog during a haze pollution episode in eastern China, Atmos. Chem. Phys., 2019, 1-30, 10.5194/acp-2019-182, 2019.

Qi, X., Ding, A., Nie, W., Chi, X., **Huang, X.**, Xu, Z., Wang, T., Wang, Z., Wang, J., and Sun, P.: Direct measurement of new particle formation based on tethered airship around the top of the planetary boundary layer in eastern China, *Atmos. Environ.*, 209, 92-101, 2019.

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Wang, J., Nie, W., Cheng, Y., Shen, Y., Chi, X., Wang, J., **Huang, X.**, Xie, Y., Sun, P., Xu, Z., Qi, X., Su, H., and Ding, A.: Light absorption of brown carbon in eastern China based on 3-year multi-wavelength aerosol optical property observations and an improved absorption Angstrom exponent segregation method, *Atmos. Chem. Phys.*, 18, 9061-9074, 10.5194/acp-18-9061-2018, 2018b.

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Liu, M., **Huang, X.\***, et al.: Rapid SO<sub>2</sub> emission reductions significantly increase tropospheric ammonia concentrations over the North China Plain, *Atmos. Chem. Phys.*, 18, 17933-17943, 10.5194/acp-18-17933-2018, 2018.

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## 2014

**Huang, X.**, Song, Y., Zhao, C., Li, M., Zhu, T., Zhang, Q., and Zhang, X.: Pathways of sulfate enhancement by natural and anthropogenic mineral aerosols in China, J. Geophys. Res. Atmos., 119, 14165-14179, 10.1002/2014JD022301, 2014.

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