Bin Zhao, Ph. D.



Associate Professor & Researcher
School of Environment, Tsinghua University
Haidian District, Beijing 100084, China
Email: bzhao@mail.tsinghua.edu.cn Tel: +86-15901020356
Website: https://www.tsinghua.edu.cn/enven/info/1036/1528.htm

EDUCATION

- Ph.D. Environmental Science and Engineering, with honors, 2015, Tsinghua University
- B.S. Environmental Science and Engineering, with honors, 2010, Tsinghua University

EMPLOYMENT

- Associate professor & Researcher, School of Environment, Tsinghua University (2024.7–Present)
- Assistant Professor & Researcher, School of Environment, Tsinghua University (2021.7–2024.6)
- Earth Scientist, Pacific Northwest National Laboratory (2019.4–2021.6)
- Assistant Researcher, Department of Atmospheric and Oceanic Sciences, University of California, Los Angeles (2018.9–2019.4)
- Postdoctoral Scholar, Department of Atmospheric and Oceanic Sciences, University of California, Los Angeles (2015.9–2018.8)

RESEARCH INTEREST

- Sources and formation processes of secondary aerosols
- Interactions between aerosols, clouds, and climate
- Coordinated control of air pollution and climate change
- Chemical transport and climate modeling

AWARDS & HONORS

- Teaching Excellence Award of Tsinghua University (2026)
- Atmospheric Chemistry and Physics Outstanding Referee Award (2025)
- Environmental Protection Science and Technology Award of China - Young Scientist Award (2024)
- ES&T Letters Excellence in Review Award (2024)
- First Prize of the Science and Technology Progress Award, Ministry of Education of China (2023)
- Youth Environmental Chemistry Award, Chinese Chemical Society (2023)
- Young Scientist Award, Chemical Weather and Chemical Climate Conference (2023)
- Clarivate's Global Highly Cited Researchers (Cross-Field) (2022)
- American Geophysical Union (AGU) Global Environmental Change Early Career Award (2021)
- Exceptional Contribution Award, Pacific Northwest National Laboratory (2020)
- Silver Dollar Award for High-Impact Publication, Pacific Northwest National Laboratory (2020)
- Outstanding Reviewer, Journal of Environmental Management (2018)
- Yuxiang Young Scholar Award, Chinese-American Oceanic and Atmospheric Association (2016)
- Tangxiaoyan First-class Environmental Science Award (2015)
- Outstanding Young Scientist of Tsinghua University (2015)
- Excellent Ph.D. Graduate of Tsinghua University (2015)
- First-class Award for Excellent Ph.D. Thesis, Tsinghua University (2015)
- Scholarship for Integrated Performance of Graduate Student, Tsinghua University (2014, 2011)
- National Scholarship, Ministry of Education, P.R. China (2013, 2009, 2008, 2007)
- Excellent Bachelor Graduate of Beijing (2010)
- Excellent Bachelor Graduate of Tsinghua University (2010)
- Excellent Bachelor Thesis, Tsinghua University (2010)

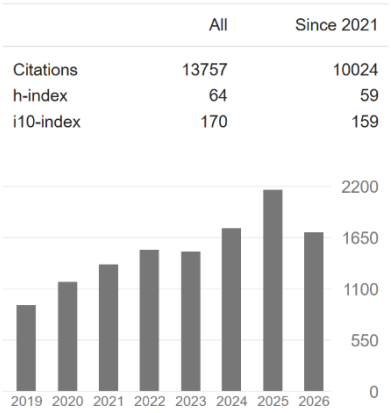
SERVICE & LEADERSHIP

- Committee Member, AGU Global Environmental Change Section Fellows Review Committee

- Associate Editor, *Geophysical Research Letters*
- Associate Editor, *Journal of Geophysical Research-Atmospheres*
- Associate Editor, *Frontiers in Environmental Science*
- Guest Editor, *Frontiers of Environmental Science and Engineering*
- Standing Committee Member, Earth Environmental Science Observation Professional Committee of the Chinese Society of Environmental Sciences
- Standing Committee Member, Ozone Professional Committee of the Chinese Society of Environmental Sciences
- Committee Member, Ecological and Environmental Artificial Intelligence Professional Committee of the Chinese Society of Environmental Sciences
- Primary Convener, American Geophysical Union (AGU) Fall Meeting 2020–2025

PUBLICATIONS & CITATIONS

- Web of Science ID: AAQ-9989-2021 | ORCID: 0000-0001-8438-9188
- Total journal publications: 235 (first/corresponding author: 65)
- First/corresponding author papers published in ***Nature*** **(1),** ***PNAS*** **(5),** ***Nature Geoscience*** **(2),** ***Nature Sustainability*** **(1),** ***Nature Communications*** **(2), and** ***One Earth*** **(1)**
- Total citations: 11,012 (Web of Science) | 13,757 (Google Scholar)
- ESI highly cited papers: 15
- h-index: 61 (Web of Science) | 64 (Google Scholar)



RESEARCH GRANTS

- PI: National Key Project on Integrated Environmental Management in the Beijing-Tianjin-Hebei Region. Development of precise simulation technologies and models for atmospheric particulate matter composition, ￥24,699,600, 09/01/2025–08/31/2028.
- Theme PI: The National Key Research and Development Program. Smart data assimilation technology integrating new model chemical schemes and multiple data sources, ￥3,355,000, 10/01/2022–9/30/2025.
- PI: National Natural Science Foundation of China. Modeling study of key new-particle formation and growth processes in polluted atmospheric environments, ￥550,000, 10/11/2022–12/31/2026.
- Theme Co-PI: The National Key Research and Development Program. Mechanisms for the formation and aging of secondary particles and their impacts on atmospheric radiation, ￥700,000, 10/01/2022–9/30/2026.
- PI: China Outstanding Scholar Program. Formation mechanisms, climate impact, and control strategies of particulate matter pollution, ￥3,000,000, 07/01/2021–6/30/2024.
- PI: Hainan Ecological Environment Monitoring Center Project. The development of proposed regional ambient air quality standards: A case study of Hainan Province, China, ￥300,000, 06/27/2022–12/31/2022.
- Co-PI: Tsinghua-Toyota Joint Research Institute Inter-disciplinary Program. Intelligent decision-support technologies and applications for cross-sector pollution and carbon reduction, ￥425,000, 04/29/2024–03/31/2026.

MENTORSHIP

- Supervisor of 5 Ph.D. students and 2 M.S. students, 2021–Present
- Co-supervisor of >20 Ph.D. students, 2016–Present
- Supervisor of 5 postdoctoral scholar, 2023–Present