YI ZHANG

College of Environmental Science and Engineering
Nankai University, Tianjin, China
Email: nku.zhangyi@outlook.com Phone: (+86) 159-195-23456

EDUCATION

Ph.D. in Environmental Management and Economics **Exp. 2025**
College of Environmental Science and Engineering, Nankai University

M.S. in Environmental Science **2019-2021**
School of Social and Political Sciences, University of Glasgow

M.S. in Environmental Science **2019-2021**
College of Environmental Science and Engineering, Nankai University

B.S. in Environmental Science **2015-2019**
College of Environmental Science and Engineering, Guangzhou University

RESEARCH INTERESTS

- **Environmental impact assessment**
- **Solid waste management**
- **Material flow analysis**
- **Carbon emissions**

PROJECT EXPERIENCE

National Natural Science Foundation Project **2023/08-present**
Research on Synergistic Effects of Solid Waste Recycling for Pollution Control and Carbon Reduction and Its Realization Mechanisms in the Context of "Zero-Waste" City Construction

- Responsible for drafting, writing, and submitting the project proposal.
- Developed a quantitative evaluation method for the synergistic benefits of pollution control and carbon reduction from solid waste resource utilization in cities.
- Conducted multi-scenario policy simulation to accurately identify the paths for achieving synergy in pollution control and carbon reduction from solid waste resource utilization.
- Published one SCI Q1 paper as the first author and co-authored one SSCI Q1 paper.

Pilot Project of Ministry of Ecology and Environment **2021/12-2022/12**
Ecological and Environmental Impact Analysis of Major Economic and Technical Policies

- Conducted policy environmental impact assessment for the "Desalination Development Action Plan (2021-2025) ".
- Co-authored the case brief "Pilot Analysis of the Ecological and Environmental Impact of Desalination Policies," submitted to the Environmental Impact Assessment Department of the Ministry of Ecology and Environment.
- Co-authored one SSCI Q1 paper.

National Key Research and Development Program **2020/11-present**
Support Technology and Application Demonstration for Precise Management of Resource Recycling Processes

- As a key leader of sub-project 2, developed a material metabolism framework and statistical model for China's major industrial solid wastes.
- Evaluated the environmental benefits of solid waste resource utilization from a life cycle perspective.
- Published one SCI Q1 paper as the first author.

Major Project of the National Social Science Fund **2018/08-2021/04**

Research on Ecological Environmental Risk Prevention System Based on Spatial Control

- Assisted in research on integrating climate change into strategic environmental assessment.
- Contributed to building the ecological and environmental risk assessment system.

College Student Innovation and Entrepreneurship Training Program **2017/04-2019/04**

Research on Photonic Crystal Sensors for Detecting Aldehydes and Ketones in Water

- Responsible for drafting, writing, and submitting the project proposal.
- Developed a portable rapid detection kit for illegal additives in wine.
- Published 1 SCI Q1 paper as the first author.

PUBLICATIONS

[1] **Zhang, Y.**, Yang, Y., Guo, D., Xu, H., 2024. Synergistic environmental benefits from copper slag recycling: pollutant mitigation and carbon reduction. Journal of Environmental Management. (Under review) (Impact factor: 8.0)

[2] **Zhang, Y.**, Ji, Y., Xu, H., Yang, Y., Tian, L., 2023. Life cycle assessment of valuable metal extraction from copper pyrometallurgical solid waste. Resources, Conservation and Recycling. (Impact factor: 11.2)

[3] **Zhang, Y.**, Wang, G., Zhang, Q., Ji, Y., Xu, H., 2022. What determines urban household intention and behavior of solid waste separation? A case study in China. Environmental Impact Assessment Review. (Impact factor: 9.8)

[4] **Zhang, Y.**, Jin, Z., Zeng, Q., Huang, Y., Gu, H., He, J., Liu, Y., Chen, S., Sun, H., & Lai, J., 2019. Visual test for the presence of the illegal additive ethyl anthranilate by using a photonic crystal test strip. Microchimica Acta. (Impact factor: 5.3)

[5] Guo, D., Zhang, S., Hou, H., **Zhang, Y.**, Xu, H., 2024. Synergistic evaluation methodology for pollution and carbon reduction in the field of solid waste resource utilization. Environmental Impact Assessment Review. (Impact factor: 9.8)

[6] Yang, Y., Xu, H., **Zhang, Y.**, Guo, X., 2023. The evolution of China's environmental impact assessment system: Retrospect and prospect from the perspective of effectiveness evaluation. Environmental Impact Assessment Review. (Impact factor: 9.8)

[7] Zhang, Y., Bai, H., Hou, H., **Zhang, Y.**, Xu, H., Ji, Y., He, G., Zhang, Y., 2021. Exploring the consumption-based carbon emissions of industrial cities in China: a case study of Tianjin. Environmental Science and Pollution Research. (Impact factor: 5.8)

Conferences

Zhang, Y., Yang, Y., Guo, D., Xu, H., 2024. Synergistic environmental benefits from copper slag recycling: pollutant mitigation and carbon reduction. *The 19th International Conference on Waste Management and Technology, Hangzhou, China*

ACADEMIC SERVICES

Peer Reviewer **2023/12-present**

Journal of Environmental Planning and Management

AWARDS

- 2022 First-class scholarship for graduate students of Nankai University

SKILLS

Programming languages: Python, MATLAB

Professional software: GaBi, Vensim PLE, e!sankey, ArcGIS, Origin

Language: Chinese, English, Teochew, Cantonese