罗浩

出生年月：1995 年 9 月 **性别：男**
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教育背景

普渡大学（QS 排名 88） 2019 年 8 月 — 2023 年 9 月
环境与生态工程 – 博士
研究方向：环境管理；碳中和；运筹优化；城市可持续发展
普渡大学（QS 排名 88） 2017 年 8 月 — 2019 年 5 月
环境与生态工程 – 硕士
河海大学 2013 年 8 月 — 2017 年 6 月
环境工程 – 学士

工作经历

常州大学吴敬琏经济学院 讲师 2024 年 11 月 — 至今
研究方向：低碳技术与政策、绿色交通、城市可持续发展、低空经济、产业生态

普渡大学环境与生态工程/工业工程联合培养博士后 2023 年 9 月 — 2024 年 9 月

科研项目

- 主持国家自然科学基金青年科学基金项目（C 类）[原青年科学基金项目] 2026—2028

荣誉成果

- 2023 普渡大学杰出学术研究奖 （每学院 1 人）
- 2022 普渡大学 Bilsland 优秀毕业论文奖（每学院 1 人）
- 2022 **爱斯维尔杰出审稿人**, *Transportation Research Part D: Transport and Environment*
- 2022 INFORMS 学生奖学金
- 2022 Russell O. Blosser 环境奖学金
- 2020 Frederick N. Andrews 环境奖学金
- 2019 International Conference on Cleaner Production & Sustainability 最佳海报奖一等奖

论文发表

已发表论文

1. **Luo, H.**, Huang, T., Wu, X., Zhao, F., (2025). Life cycle assessment for primary gallium production at industrial-scale. *The International Journal of Life Cycle Assessment*, 30, 1545–1559. [link]
（SCI，影响因子：5.4）
2. **Luo, H.**, Chahine, R., Gkritza, K., Cai, H. (2023). What motivates the use of shared mobility and their integration with public transit: evidence from a mode choice study. *Transportation Research Part C:*

Emerging Technologies, 155, 104286. [link]
（JCR Q1，**中科院 1 区 TOP**，影响因子：9.0）

3. **Luo, H.**, Zhang, Z., Gkritza, K., & Cai, H. (2021). Are shared electric scooters competing with buses? a case study in Indianapolis. *Transportation Research Part D: Transport and Environment*, 97, 102877. [link]
（JCR Q1，**中科院 1 区 TOP**，影响因子：7.0，被引次数：55）
4. **Luo, H.**, Zhao, F., Chen, W. Q., & Cai, H. (2020). Optimizing bike sharing systems from the life cycle greenhouse gas emissions perspective. *Transportation Research Part C: Emerging Technologies*, 117, 102705. [link]
（JCR Q1，**中科院 1 区 TOP**，影响因子：9.0，被引次数：75）
5. **Luo, H.**, Kou, Z., Zhao, F., & Cai, H. (2019). Comparative life cycle assessment of station-based and dock-less bike sharing systems. *Resources, Conservation and Recycling*, 146, 180-189. [link]
（JCR Q1，**中科院 1 区 TOP**，影响因子：13.7，被引次数：143）
6. Li, Y., **Luo, H.**, Cai, H. (2023). Photovoltaic-battery powered bike share stations are not necessarily energy self-sufficient, *Applied Energy*, 348, 121505. [link]
（JCR Q1，**中科院 1 区 TOP**，影响因子：11.4）
7. You, G., Hou, J., Wang, P., Xu, Y., Wang, C., Miao, L., & **Luo, H.** (2016). Effects of CeO_2 nanoparticles on sludge aggregation and the role of extracellular polymeric substances–explanation based on extended DLVO. *Environmental Research*, 151, 698-705. [link]
（JCR Q1，**中科院 2 区 TOP**，影响因子：13.7，被引次数：34）

外审论文

1. **Luo, H.**, Chahine, R., Gkritza, K., Cai, H., Assessing the travel demand impact of shared mobility adoption using an agent-based model. *Environmental Science and Technology*.
2. **Luo, H.**, Chahine, R., Deodhar, S, Gkritza, K., Cai, H., Estimating the potential impact of e-commerce on travel demand. *Sustainable Cities and Society*.
3. Chahine, R., **Luo, H.**, Cai, H., Gkritza, K., A Comparative Analysis of Bike-Sharing and E-Scooter Sharing Services in a College Town. *Transportation Research Part A: Policy and Practice.*
4. Sun, R., **Luo, H.,** Kou, Z., Cai, H. Estimating the Rebalancing Activities and Vehicle Use for Existing Station-based Bike Share Systems. *Journal of Cleaner Production*.
5. Genc, U., **Luo, H.**, Cai, H. Assessing transportation equity considering individual travel demand and the feasibility of trip mode alternatives. *Transportation Research Part A: Policy and Practice*.

教学经历

普渡大学

- **研究生教学助理**
  - 课程名称：Life Cycle Assessment: Principles and Applications, 2018-2019
- **本科生教学助理**
  - 课程名称：Engineering Environmental Sustainability, 2023

学术兼职

- 期刊审稿
  - *Journal of Cleaner Production*
  - *Transportation Research Part A: Policy and Practice*
  - *Transportation Research Part D: Transport and Environment*
  - *Transportation Research Part E: Logistics and Transportation Review*

- *Transportation Research Record*
- *International Journal of Transportation Science and Technology*
- *Frontiers of Engineering Management*
- *Transportation Engineering*

- 会议审稿
  - Transportation Research Board (TRB) Annual Meeting, 2020-2024
  - International Symposium on Sustainable Systems and Technology (ISSST 2019)
- 会议组织
  - 学术委员会
    - 第一届城市科学与可持续发展会议，中国厦门，2023 年 12 月
  - 志愿者
    - Institute for Operations Research and the Management Sciences (INFORMS) Annual Meeting, 2022
    - 26th College International pour la Recherche en Productique (CIRP) Conference on Life Cycle Engineering, 2019
- 学术组织
  - 中国产业生态协会 Chinese Society for Industrial Ecology (CSIE), 学生会员, 2023 至今
  - Association of Environmental Engineering and Science Professors (AEESP), 学生会员, 2023-至今
  - Open Mobility Foundation,会员, 2021 至今
  - 北美华人环境科学与工程学会, 学生会员, 2020-至今
  - International Society for Industrial Ecology (ISIE), 学生会员, 2020-至今
    - Institute for Operations Research and the Management Sciences (INFORMS), 学生会员, 2020-至今
      Transportation Research Board, 学生会员, 2020-至今

学术会议

1. **Luo, H.**, Cai, H., Gkritza, K., How to plan shared mobility for a sustainable transportation system, *11th International Conference on Industrial Engineering (ISIE2023)*, 2023 年 6 月，荷兰 (口头报告)
2. Genc, U., **Luo, H.**, Cai, H., How do active travel modes enhance transportation equity and why people don't use them? *11th International Conference on Industrial Engineering (ISIE2023)*, 2023 年 6 月，荷兰 (口头报告)
3. Li, Y., **Luo, H.**, Cai, H., Evaluating energy self-sufficiency of photovoltaic-battery powered bike share stations. *International Symposium on Sustainable Systems and Technology*, 2023 年 6 月，美国科罗拉多 (口头报告)
4. **Luo, H.**, Cai, H., Gkritza, K., Assessing the Travel Demand and Mobility Impacts of Transformative Transportation Technologies, *2023 AEESP Distinguished Lecturer Conference*, 2023 年 3 月，美国圣母大学 (海报展示)
5. Li, Y., **Luo, H.**, Cai, H., Are Photovoltaic-battery powered bike share stations self-sufficient? *2023 Purdue ESE Symposium*, 2023 年 2 月，美国普渡大学 (海报展示) (获**大众选择奖**)
6. **Luo, H.**, Chahine, R., Gkritza, K., Cai, H., What motivates the use of shared mobility and their integration with public transit: evidence from a mode choice study, *2023 Transportation Research Board (TRB) Annual Meeting*, 2023 年 1 月，美国华盛顿 （海报展示）
7. **Luo, H.**, Chahine, R., Gkritza, K., Cai, H., How Will Shared Mobility Reshape the Travel Demand: Evidence from Indianapolis, *Institute for Operations Research and the Management Sciences (INFORMS) Annual Meeting*, 2022 年 10 月，美国印第安纳（海报展示） (获**学生奖学金**)
8. **Luo, H.**, Cai, H., "A modeling framework to evaluate global bike-sharing environmental impacts", *Gordon Research Conference: Industrial Ecology*, June 2022, ME (口头报告)
9. Sun, R., **Luo, H.,** Kou, Z., Cai, H., "Estimating the bike share rebalancing operations for U.S. cities", *2022*

Transportation Research Board (TRB) Annual Meeting, 2022 年 1 月，美国华盛顿(海报展示)

10. **Luo, H.**, Cai, H., "Life cycle carbon emission of shared micro-mobility in global cities", *Institute for Operations Research and the Management Sciences (INFORMS) Annual Meeting*, 2021 年 10 月，美国西雅图(口头报告)
11. **Luo, H.**, Cai, H., "How does COVID-19 have impacts on the environmental sustainability of shared micro-mobility?", *2021 International Conferences on Resource Sustainability (icRS)*, 2021 年 7 月，爱尔兰都柏林 (口头报告)
12. **Luo, H.**, Zhang, Z., Gkritza, K., & Cai, H., "Understanding the relationship between shared micro-mobility and public transit system", *2021 Chinese-American Professors in Environmental Engineering & Science (CAPEES) Student Poster Competition*, 2021 年 7 月，线上会议 (海报展示) (获**最佳海报奖**)
13. **Luo, H.**, Zhang, Z., Gkritza, K., & Cai, H., "Are shared e-scooters competing with the bus?", Poster Presentation, *2021 Transportation Research Board (TRB) Annual Meeting*, 2021 年一月，美国华盛顿 (海报展示)
14. **Luo, H.**, Zhao, F., Chen, W. Q., & Cai, H., "Bike sharing optimization from life cycle perspective", *2020 Transportation Research Board (TRB) Annual Meeting*, 2020 年 1 月，美国华盛顿(海报展示)
15. **Luo, H.**, Zhao, F., Chen, W. Q., & Cai, H., "Optimizing the bike sharing system: system design and operation", *2019 International Conference on Cleaner Production & Sustainability*, 2019 年 10 月，中国香港（海报展示）（获**最佳海报一等奖**）
16. **Luo, H.**, Kou, Z., Zhao, F., & Cai, H., "Comparative life cycle assessment of station-based and dock-less bike sharing system", *26th CIRP Conference on Life Cycle Engineering*, 2019 年 5 月，美国普渡大学 (海报展示)

特邀报告

1. Rethink the carbon mitigation technology: A systematical analysis of shared micro-mobility, Invited seminar speaker, Environmental and Ecological Engineering, 2023 年 3 月，美国普渡大学
2. Transforming carbon mitigation through transportation revolution, 城市环境研究所, 中国科学院, 2022 年 12 月，中国厦门