

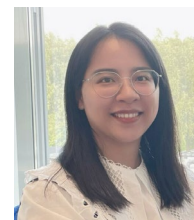
WU CHEN

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Summary

My research links socioeconomic metabolism with management science and engineering (my training background) and integrated assessment models, particularly for metal cycle and transportation systems.

Education:

2017-2021 Ph.D. (Engineering Science), University of Southern Denmark, Denmark

2014-2017 Master (Industrial Engineering), Chengdu University of Technology, China

2010-2014 Bachelor (Business Administration), Chengdu University of Technology, China

Research Experiences

2022-present Assistant Professor, SDU Life Cycle Engineering

2021-2022 Postdoc, SDU Life Cycle Engineering

2020-2021 Researcher of Project Drawdown to improve transportation emission model

2019 International Institute for Applied Systems Analysis (IIASA) Young Scientists Summer Program, Austria

2015-2016 Guest graduate student Chinese Academy of Geological Sciences

Award

2021 YERUN Research Mobility Awards

2021 The Second Prize of Nordic Energy Challenge

Research publications:

- **Chen, W.**, Sun, X., Liu, L., Liu, X., Zhang, R., Zhang, S., Xue, J., Sun, Q., Wang, M., Li, X., et al. (2022). Carbon neutrality of China's passenger car sector requires coordinated short-term behavioral changes and long-term technological solutions. **One Earth** 5, 875–891. 10.1016/j.oneear.2022.07.005.
- Zeng, A., **Chen, W.**, Rasmussen, K.D., Zhu, X., Lundhaug, M., Müller, D.B., Tan, J., Keiding, J.K., Liu, L., Dai, T., et al. (2022). Battery technology and recycling alone will not save the electric mobility transition from future cobalt shortages. **Nature Communications**. 13, 1341. 10.1038/s41467-022-29022-z. (equal contribution)
- **Chen, W.**, Carstensen, T.A., Wang, R., Derrible, S., Rueda, D.R., Nieuwenhuijsen, M.J., and Liu, G. (2022). Historical patterns and sustainability implications of worldwide bicycle ownership and use. **Communications Earth Environment**. 3, 171. 10.1038/s43247-022-00497-4.
- **Chen, W.**, Liu, Q., Zhang, C., Mi, Z., Zhu, D., and Liu, G. (2020). Characterizing the stocks, flows, and carbon impact of dockless sharing bikes in China. **Resources Conservation & Recycling**. 162, 105038. 10.1016/j.resconrec.2020.105038.