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Scientific focus areas:

Resource efficiency and decoupling analysis of socioeconomic transitions; material flow analysis (MFA); life cycle assessment (LCA); statistical analysis; input-output analysis

Education

2020- PhD Environmental Science and Engineering, Department of Green Technology, University of Southern Denmark, Odense, Denmark. Dissertation: “Unearthing Patterns of Sociometabolic Transitions Towards Material Efficient Societies”

2017-2020 MSc Statistics, School of Mathematics and Statistics, Central South University, Changsha, China

2012-2016 BSc Statistics, School of Mathematics and Statistics, Central South University, Changsha, China

Research grants

CSU Postgraduate Exchange Program, Exeter University, 2019

Chinese Government Scholarship Program, University of Southern Denmark, 2020-2023

Publications

Guo, Y., **Zhu, W.**^{*}, Yang, Y., Cheng, H., (2019). Carbon reduction potential based on life cycle assessment of China’s aluminium industry—a perspective at the province level. *J. Clean. Prod.* 239, 118004.

Yang, Y., Guo, Y., **Zhu, W.**, Huang, J., (2019). Environmental impact assessment of China’s primary aluminum based on life cycle assessment. *Trans. Nonferrous Met. Soc. China.* 29, 1784–1792.

Guo, Y., Yao, S., Cheng, H., **Zhu, W.**, (2020). China’s copper futures market efficiency analysis: Based on nonlinear Granger causality and multifractal methods. *Resour. Policy* 68, 101716.

Zhu, W., Cimpan, C., Sun, K., Liu, Q., Veipa, A., Liu, G., (2023). Tracking the post-1990 sociometabolic transitions in Eastern Europe with dynamic economy-wide material flow analysis. *Resour. Conserv. Recycl.* 199: 107280.

Zhu, W., Ouyang, X., Song, X., Chen, W., Liu, G.. Material efficiency transition in global iron, copper, and aluminum cycles. (Planning submission)

Zhu, W., Ouyang, X., Jiang, M., Cimpan, C., Liu, G.. The role of fixed capital in downscaled material footprint-affluence relations. (Planning submission)