Suiting Ding
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SDU Life Cycle Engineering
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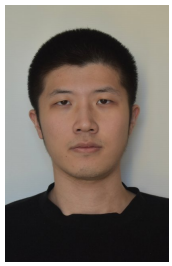

Research areas

I am currently focusing on the safety and sustainability assessment of emerging technologies such as supercapacitors and powder metallurgy technologies using Safe-and-Sustainable-by-Design (SSbD) framework and life cycle assessment (LCA) tools.

Employment

Department of Green Technology (IGT)
SDU
Odense M
15. Sept 2025 → 30. Nov 2027

Postdoc
SDU Life Cycle Engineering
SDU
Odense M
15. Sept 2025 → 30. Nov 2027

Qualifications

Industrial Ecology, Doctor of Industrial Ecology, Environmental opportunities and challenges for IoT in sustainable supply chain operations - from industries to products, Leiden University
17. Dec 2020 → 31. Oct 2024
Award Date: 31. Oct 2024

Industrial Engineering, Master of Engineering, China University of Mining and Technology
1. Sept 2018 → 1. Jun 2020
Award Date: 1. Jun 2020

Industrial Engineering, Bachelor of Management, Nanjing University of Aeronautics and Astronautics
1. Sept 2014 → 1. Jun 2018
Award Date: 1. Jun 2018

Research outputs

Life cycle assessment of metallurgical options for recycling high-alloy tool steels
Ding, S., Pusateri, V., Dahmen, T., Semarak, C., Nadimpalli, V. K. & Cimpan, C., Feb 2026, In: Resources, Conservation and Recycling. 226, 13 p., 108655.

The environmental benefits and burdens of RFID systems in Li-ion battery supply chains – An ex-ante LCA approach
Ding, S., Cucurachi, S., Tukker, A. & Ward, H., Oct 2024, In: Resources, Conservation and Recycling.

Revealing the hidden potentials of Internet of Things (IoT) - An integrated approach using agent-based modelling and system dynamics to assess sustainable supply chain performance
Ding, S., Ward, H., Cucurachi, S. & Tukker, A., Oct 2023, In: Journal of Cleaner Production.

Opportunities and risks of internet of things (IoT) technologies for circular business models: A literature review
Ding, S., Tukker, A. & Ward, H., Jun 2023, In: Journal of Environmental Management.

How Internet of Things can influence the sustainability performance of logistics industries – A Chinese case study
Ding, S., Ward, H. & Tukker, A., Mar 2023, In: Cleaner Logistics and Supply Chain.

The effect of indirect household energy consumption on PM 2.5 emission in China: An analysis based on CLA method
Zhang, M., Ding, S., Pang, J. & Wang, W., Feb 2021, In: Journal of Environmental Management.

Exploring China's carbon emissions peak for different carbon tax scenarios
Ding, S., Zhang, M. & Song, Y., Jun 2019, In: Energy Policy.

Projects

ARMS: Atomic layer-coated gRaphene electrodes for Micro-flexible and Structural supercapacitors
Ding, S. (Project participant)
01/12/2023 → 01/12/2027

REVIVE: Scaling high-value steel recycling through digitalized Spray Forming and local closed-loop ecosystems
Ding, S. (Project participant)
01/09/2024 → 31/12/2027

Teaching and supervision

Life Cycle Assessment of Closed-Loop Steel Recycling Using Spray Forming Technology

Ding, S.
01/02/2026 → 30/06/2026