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Publikationer

Spatiotemporal and Multilayer Trade Network Patterns of the Global Cobalt Cycle

Liu, L., Ouyang, X., Gao, T., Dai, T., Tan, J., Liu, X., Zhao, H., Zeng, A., Chen, W., He, C. & Liu, G., 27. aug. 2024, I: Environmental Science & Technology. 58, 34, s. 15066–15077

Uncovering Availability of the Secondary Iron Resources in China: Integrating Material Flow Analysis and Secondary Resources Reserve Assessment

Dai, T., Han, Z., Chen, W., Wen, B., Ouyang, X., Li, Q., Pan, Z. & Liu, Q., 13. aug. 2024, I: Environmental Science & Technology. 58, 34, s. 15268–15278

Coupling and coordinated evolution characteristics of regional economy-energy-carbon emission multiple systems: A case study of main China's Basin

Chen, L., Li, X., Zhao, J., Kang, X., Liu, L., Wang, M. & Chen, W., jun. 2024, I: Journal of Environmental Sciences. 140, s. 204-218

Design a reverse logistics network for end-of-life power batteries: A case study of Chengdu in China

Lin, J., Li, X., Zhao, Y., Chen, W. & Wang, M., nov. 2023, I: Sustainable Cities and Society. 98, 13 s., 104807.

Low carbon development patterns of land use under complex terrain conditions: The case of Chongqing in China

Luo, Y., Li, X., Chen, L., Zhang, H., Wang, M. & Chen, W., nov. 2023, I: Ecological Indicators. 155, 13 s., 110990.

基于动态物质流分析的中国铁二次资源回收潜力研究

Han, Z. K., Dai, T., Li, Q. F., Chen, W. & Pan, Z. S., mar. 2023, I: Acta Geoscientica Sinica. 44, 2, s. 315-324

Lithium extraction from hard rock lithium ores (spodumene, lepidolite, zinnwaldite, petalite): Technology, resources, environment and cost

Gao, T. M., Fan, N., Chen, W. & Dai, T., jan. 2023, I: China Geology. 6, 1, s. 137-153

Mapping the upstream journey of China's indium: A trade-linked substance flow analysis

Lin, J., Li, X., Chen, W. & Wang, M., 20. dec. 2022, I: Journal of Cleaner Production. 380, Part 1, 11 s., 135051.

Carbon neutrality of China's passenger car sector requires coordinated short-term behavioral changes and long-term technological solutions

Chen, W., Sun, X., Liu, L., Liu, X., Zhang, R., Zhang, S., Xue, J., Sun, Q., Wang, M., Li, X., Yang, J., Hertwich, E., Ge, Q. & Liu, G., 19. aug. 2022, I: One Earth - Cell Press . 5, 8, s. 875-891

Battery technology and recycling alone will not save the electric mobility transition from future cobalt shortages

Zeng, A., Chen, W., Rasmussen, K. D., Zhu, X., Lundhaug, M., Müller, D. B., Tan, J., Keiding, J. K., Liu, L., Dai, T., Wang, A. & Liu, G., 15. mar. 2022, I: Nature Communications. 13, 1, 11 s., 1341.

Historical patterns and sustainability implications of worldwide bicycle ownership and use

Chen, W., Carstensen, T. A., Wang, R., Derrible, S., Rueda, D. R., Nieuwenhuijsen, M. J. & Liu, G., 2022, I: Communications Earth & Environment. 3, 1, 9 s., 171.

Towards sustainable road transportation systems: fleet dynamics, resource constraints, and emission pathways

Chen, W., 30. nov. 2020, Syddansk Universitet. Det Tekniske Fakultet. 365 s.

Characterizing the stocks, flows, and carbon impact of dockless sharing bikes in China

Chen, W., Liu, Q., Zhang, C., Mi, Z., Zhu, D. & Liu, G., nov. 2020, I: Resources, Conservation and Recycling. 162, 105038.

Platinum Cycle and Demand in the EU Driven by Fuel Cell and Electrolyser Technology Development

Dalgas Rasmussen, K., Chen, W., Berr, M. A. & Liu, G., 2019, I: Energy Proceedings. 4

Promoting material flow and socioeconomic metabolism analysis for achieving UN 2030 sustainable development goals

Liu, G., Cao, Z., Wang, H., Liu, L., Chen, W. & Wang, J., 2018, I: Bulletin of Chinese Academy of Sciences. 33, 1, 12 s.

Assessment of potential copper scrap in China and policy recommendation

Chen, W., jun. 2017, I: Resources Policy. 52, s. 235-244 244 s.

Analysis of copper flows in the United States: 1975–2012

Chen, W., Wang, M. & Li, X., aug. 2016, I: Resources, Conservation and Recycling. 111, s. 67-76

Substance flow analysis of copper in production stage in the U.S. from 1974 to 2012

Chen, W., dec. 2015, I: Resources, Conservation and Recycling. 105, s. 36-48

One Year Substance Flow Analysis of Copper Cycle in US

Wang, M., Chen, W. & Li, X., 2015, *Proceedings of the Ninth International Conference on Management Science and Engineering Management*. Xu, J., Nickel, S., Cruz Machado, V. & Hajiyev, A. (red.). Springer, s. 1265–1272 (Advances in Intelligent Systems and Computing, Bind 362).

Aktiviteter

Chinese-European Society for Environment, Ecology & Sustainability (Ekstern organisation)

Chen, W. (Medlem)

2024 → ...

Economic Change and Restructuring (Tidsskrift)

Chen, W. (Peer reviewer)

2024

Joint ISIE Socio-Economic Metabolism and Asia-Pacific Conference

Chen, W. (Deltager)

2024

Resources, Conservation and Recycling (Tidsskrift)

Chen, W. (Peer reviewer)

2024

WASTELESS kick-off meeting

Chen, W. (Deltager)

jan. 2023

Global Networks (Tidsskrift)

Chen, W. (Peer reviewer)

2023

Mines Nancy (Ekstern organisation)

Chen, W. (Medlem)
2023

Towards carbon neutrality: sustainable transportation transition and circular economy

Chen, W. (Underviser)
dec. 2022

Battery technology alone could not save the electric mobility transition from future cobalt shortages

Chen, W. (Underviser)
maj 2022

14th ISIE SEM Conference-Conference on Transforming Socio-economic Metabolism in Times of Multiple Crises

Chen, W. (Deltager)
2022

GreenLab community day

Chen, W. (Deltager)
2022

Journal of Environmental Management (Tidsskrift)

Chen, W. (Peer reviewer)
2022

International Society for Industrial Ecology (Ekstern organisation)

Chen, W. (Medlem)
2017 → ...

Priser

Scholarship for sustainable transportation

Chen, W. (Modtager), 2021

The Second Prize of Nordic Energy Challenge

Chen, W. (Modtager), 2021

YERUN Research Mobility Awards

Chen, W. (Modtager), 2021

Presse/medie

Bikes, Not Self Driving Cars, Are The Technological Gateway To Urban Progress

Chen, W.
02/09/2022
1 element af Mediedækning

Marche, vélo : les gains sanitaires et économiques du développement des transports actifs en France

Chen, W.
30/08/2022
1 element af Mediedækning

News story from Daily Mail on Thursday 18 August 2022

Chen, W.
18/08/2022

1 element af Mediedækning

On your bike: If we all cycled like the Dutch, global emissions would drop nearly 700 million tonnes

Chen, W.

22/08/2022

1 element af Mediedækning

Se tutti andassimo in bici come gli olandesi, sai quante emissioni si risparmierebbero?

Chen, W.

07/02/2023

1 element af Mediedækning

Studie: Verden sparer 414 mio. ton CO2, hvis alle cykler som danskerne

Chen, W.

18/08/2022

1 Mediebidrag

Transition to sustainable transport

Chen, W.

27/08/2021

1 Mediebidrag

Warming Trends: Climate Insomnia, the Decline of Alpine Bumblebees and Cycling like the Dutch and the Danes

Chen, W.

03/09/2022

1 Mediebidrag

World could save 700 million metric tons of CO2 if people cycled more, study shows

Chen, W.

18/08/2023

1 element af Mediedækning

World could save 700 million MT of CO2 if people cycled more, study shows

Chen, W.

18/08/2022

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World could save 700 mn tonnes of CO2 if people cycled more, study shows

Chen, W.

18/08/2022

1 Mediebidrag

碳访 | 学丹麦荷兰骑车减碳？先看看近半世纪的全球自行车“家底

Chen, W.

31/08/2022

1 element af Mediedækning

自転車ブームの熱が冷めても、持続的な利用が減らない都市の共通項

Chen, W.

18/02/2023

1 element af Mediedækning

輸送：オランダ人のように自転車を利用して二酸化炭素排出量を減らそう

Chen, W.

19/08/2022

1 element af Mediedækning

Projekter

International research networks on sustainable transportation transitions and circular economy

Chen, W. (Projektdeltager)
01/03/2023 → 01/02/2025

Material-energy nexus in sustainable transportation systems

Chen, W. (Projektdeltager)
21/08/2017 → 31/12/2021

Multi-Disciplinary Risk Management for Stable, Safe, and Sustainable Offshore Wind-Powered Hydrogen Production

Chen, W. (Projektdeltager)
01/11/2024 → 30/09/2029

Quantum Inspired Valuation of circular real estate

Chen, W. (Projektdeltager)
01/09/2024 → 31/08/2028

TERRITORIAL AND REGIONAL DEMONSTRATIONS OF SYSTEMIC SOLUTIONS OF KEY VALUE CHAINS AND THEIR REPLICATION TO DEPLOY CIRCULAR ECONOMY

Liu, G. (Projektdeltager) & Chen, W. (Projektdeltager)
01/06/2022 → 31/05/2026

Waste Quantification Solutions To Limit Environmental Stress

Chen, W. (Projektdeltager) & Liu, G. (Projektdeltager)
01/01/2023 → 31/12/2025

Undervisning og vejledning

Battery materials demand and end-of-life management in Europe's electric mobility transition: A country-level dynamic material flow analysis

Chen, W.
01/09/2020 → 30/06/2021

End-of-life battery management in Norway's electric mobility transition: dynamic material flow analysis

Chen, W.
01/02/2023 → 31/05/2024

Engineering for Sustainability

Chen, W.
06/08/2024 → 18/08/2024

EU Transition to Electric Mobility in Private Passenger Transport: Effects on Cobalt and Lithium Demand

Chen, W.
01/01/2019 → 30/06/2019

In-company project

Chen, W.
01/09/2023 → 31/12/2023

Material Flow Analysis

Chen, W.
01/02/2022 → 15/05/2022

Material Flow Analysis

Chen, W.
01/02/2023 → 22/05/2023

Material Flow Analysis of Plastic in Indonesia

Chen, W.
01/02/2025 → ...

Method in Science

Chen, W.
01/10/2022 → 31/12/2023

Method in Science

Chen, W.
01/09/2023 → 31/12/2023

Sustainable Development

Chen, W.
01/09/2022 → 31/12/2022

Sustainable Development

Chen, W.
01/09/2023 → 31/12/2023

Impacts

Transition to sustainable transport
Chen, W. (Deltager)

Datasæt

Database of the integrated model, used for the material and climate implication of car transition in China
Chen, W. (Ophavsmand) & Liu, G. (Ophavsmand), Zenodo, 18. feb. 2022
DOI: 10.5281/zenodo.6812245

Historical patterns and sustainability implications in worldwide bicycle ownership and use

Chen, W. (Ophavsmand), Carstensen, T. A. (Bidrager), Wang, R. (Bidrager), Derrible, S. (Bidrager), Rueda, D. R. (Bidrager), Nieuwenhuijsen, M. J. (Bidrager) & Liu, G. (Ophavsmand), Zenodo, 30. jun. 2022
DOI: 10.5281/zenodo.6784561, <https://zenodo.org/record/6784561>