Short Bio

Jens Peters is Ramón y Cajal distinguished research professor at University of Alcalá, Madrid. He holds a diploma degree (Dipl. Ing.) in electrical engineering (communication technologies) from the Technical University of Munich. After working several years as R&D engineer and project leader in the automotive industry (Ingolstadt, Barcelona) and a MSc. in renewable energies and fuel cells at UIMP / CSIC in Madrid, he started working in the field of system analysis of energy processes at Instituto IMDEA Energía, Madrid. In 2015 he finished his dissertation at Universidad Rey Juan Carlos (Madrid) about the environmental, economic, and thermodynamic assessment of pyrolysis processes for the production of biofuels and biochar. From 2015 to 2019 he was part of the research group 'Resources, Recycling, Environment & Sustainability' at Helmholtz Institute Ulm (HIU) and Karlsruhe Institute of Technology (KIT), where he worked on the modelling and assessment of novel electrochemical energy storage technologies, with a special focus on material issues, sustainability, and recycling of new battery systems. In 2019 he joined Universidad de Alcalá (Madrid), Department of Economics as a Marie Curie MSCA Fellow, with an interdisciplinary project on policy analysis of low carbon transition pathways, energy system analysis and energy storage, followed by an assistant professorship position in 2023 and a Ramón y Cajal fellowship for distinguished researchers in 2024. Since 2022 he is working in parallel as internal expert for the Joint Research Centre (JRC) of the European Commission developing the Carbon Footprint category rules for rechargeable batteries under the new Battery Regulation. Jens is member of the Nature Sustainability Expert Panel on Batteries, part of the Batteries Europe Task Forces on Sustainability and Social Science and Humanities, vice-president of the AScUS (Actionable Science for Urban Sustainability) Society, member of the International Society for Industrial Ecology and part of the organizing committee of the bi-annual AScUS conference on Urban Sustainability. In 2024 he was listed for the third time on the Elsevier list of the top 2% scientists in their fields for single-year impact in 2023 by c-score.

Most recent publications:

- Tarroja, B., Schoenung, J.M., Ogunseitan, O., Kendall, A., Qiu, Y., Malloy, T., Peters, J.F., Mijin Cha, J., Mulvaney, D., Heidrich, O., Baumann, M. (2024). Overcoming Barriers to Improved Decision-Making for Battery Deployment in the Clean Energy Transition. iScience 27(6109898), DOI: 10.1016/j.isci.2024.109898
- Baumann, M., Peters, J.F., Häringer, M., Schmidt, M., Schneider, L., Bauer, W., Binder, J.R., Weil, M. (2024) Prospective Hazard and Toxicity Screening of Sodium-ion Battery Cathode Materials. Green Chemistry 26(5), DOI: 10.1039/D3GC05098J
- Peters, J.F. Best practices for life cycle assessment of batteries. *Nat Sustain* (2023). https://doi.org/10.1038/s41893-023-01067-y
- Baumann, M., Häringer, M., Schmidt, M., Schneider, L., Peters, J.F., Bauer, W., Binder, J., Weil, M. (2022) Prospective Sustainability Screening of Sodium-Ion Battery Cathode Materials. Advanced Energy Materials 12 (46), 2202636. DOI: 10.1002/aenm.202202636
- Bauer, C., Burkhard, S., Dasgupta, N. Peters, J.F. et al. (2022) Charging sustainable batteries. Nature Sustainability 5(3). *DOI: 10.1038/s41893-022-00864-1*