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Editors

*Resources, Conservation and Recycling*

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Dear Editors,

We are pleased to submit our original research article titled “T-reX: Quantifying waste and material footprints in current and future Life Cycle Assessment (LCA) databases” for consideration by *Resources, Conservation and Recycling*. This manuscript details the development and application of an innovative tool designed to improve the quantification of waste and material flows within Life Cycle Assessment (LCA) databases, an essential aspect of progressing towards sustainable resource management and circular economy objectives.

Our submission provides a comprehensive description of the tool, which integrates seamlessly with the brightway framework to offer a user-friendly and adaptable solution for LCA practitioners. By automating data analysis and aggregation processes, our tool expedites the identification of environmental hotspots within supply chains, thus facilitating more informed decision-making.

We believe our manuscript is an excellent fit for *Resources, Conservation and Recycling* due to its potential contribution to advancing resource conservation and recycling methodologies. The case study presented, focusing on battery supply chains, underlines the tool’s practical utility and potential impact on sustainable resource management practices.

The manuscript complies with the journal’s requirements for an original research article, having a word count of 4969, including four figures and two tables.

We have no conflicts of interest to declare and have ensured that this work is original, has not been published previously, and is not under consideration by any other publication. All authors have agreed to this submission and are collectively responsible for its content.

We suggest the following reviewers for their expertise relevant to our manuscript’s focus:

1. Rafael Laurenti, IVL — Swedish Environmental Research Institute, rafa@kth.se
2. Valentina Bisinella, DTU — Technical University of Denmark, valenb@dtu.dk
3. Chris Mutel, Cauldron Solutions and brightway, cmutel@gmail.com

Thank you for considering our manuscript for publication. We look forward to the opportunity to contribute to *Resources, Conservation and Recycling* and eagerly await your response.

Sincerely,

Stewart Charles McDowall

Elizabeth Lanphear

Stefano Cucurachi

Carlos Felipe Rocha Blanco