Integrated recovery and upgrading of bio-based dicarboxylates

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**Description**

The inevitable depletion of non-renewable resources for the production of chemicals requires continued research efforts to make platform chemicals from renewable resources. In particular, the development and establishment of processing routes based on biomass should be prioritized in the short to midterm and further to mitigate climate change effects. Although several of these routes are technically feasible, different challenges and pitfalls towards better utilization of raw materials, emissions and overall sustainability have been identified. Particularly, in the case of the pathway from sugars to derivatives and materials via bio-based dicarboxylates, better technologies on downstream processing and upgrading of these dicarboxylates are required to minimize waste salt emission if efficient neutral pH bio-based transformations are used.

**Dissertation**


**Publications from the dissertation**
