Special Issue

Environmental Impact Assessment of Agricultural and Food Production Systems Using the Life Cycle Assessment Methodology

Message from the Guest Editors

Currently, most studies on identifying the causes of significant environmental impacts in the food supply chains are conducted using the LCA method, although the method gives practitioners flexibility in choosing some relevant elements. It is useful to develop a wide range of studies that apply this methodology to different agri-food chains to assist in making better environmental decisions. Research areas may include (but are not limited to) the following:

- LCA of food products
- LCA of non-food agricultural products
- Comparative LCA of different options of food residue valorization
- Comparison of different production systems of similar/same product
- Cradle to grave, cradle to gate or gate to gate LCA analysis of agricultural production
- Primary production and elaboration ecodesign
- Life cycle inventory for food products and services
- Comparison of different life cycle impact assessment methods
- Single and multi-issue LCIA methods analysis
- Midpoint and endpoint LCA analysis
- LCA applied to crop production, transportation, food processing, different packaging systems, retail and food waste management
- Analysis on different allocation procedures in LCA

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