

## Special Issue

# Rethinking Waste: Life Cycle Thinking Approaches Towards a Circular and Regenerative Future

### Message from the Guest Editor

The transition to a circular and regenerative economy requires a fundamental shift in how we perceive and manage waste. Traditional linear models—based on extraction, production, consumption, and disposal—are increasingly unsustainable in the face of resource scarcity, climate change, and environmental degradation. Life Cycle Thinking (LCT) offers a holistic framework to evaluate environmental impacts across the entire life cycle of products, processes, and systems, enabling informed decisions that minimize waste and maximize resource efficiency. This Special Issue aims to explore innovative strategies, methodologies, and applications of LCT that support circularity and regeneration. Research areas and topics may include, but are not limited to, the following:

- Design for circularity;
- Responsible consumption;
- Life cycle assessment (LCA);
- Material recovery;
- Industrial symbiosis;
- Systemic approaches to waste prevention.

We encourage contributions from diverse sectors such as manufacturing, energy, construction, and environmental systems, as well as interdisciplinary studies that link technology, policy, and social innovation.

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### Guest Editor

Dr. Ana Ramos

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### Deadline for manuscript submissions

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### Editor-in-Chief

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