

Special Issue

Advancing Environmental Sustainability Through Life Cycle Assessment

Message from the Guest Editors

- Life Cycle Assessment (LCA) has evolved into a pivotal methodological framework for evaluating the environmental sustainability of products, processes, and systems. Amid intensifying global challenges—such as climate change, resource depletion, and the transition toward a circular economy—LCA is increasingly applied not only as an analytical tool but also as a strategic instrument to inform policy, drive industrial innovation, and support sustainable decision-making.
- This Special Issue aims to highlight recent methodological advances, practical applications, and integrative approaches that strengthen the role of LCA in facilitating sustainability transitions. It seeks to position LCA within the broader scientific landscape by linking it to contemporary research in environmental assessment, sustainable design, circular economy strategies, and systems thinking.
- We welcome contributions that demonstrate how LCA can enable robust sustainability evaluations, guide responsible innovation, and enhance transparency in environmental communication. Submissions may include methodological developments, applied case studies, comparative analyses, and interdisciplinary approaches.

Guest Editors

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Message from the Editor-in-Chief

I encourage you to contribute a research or comprehensive review article for consideration for publication in Sustainability, an international open access journal which provides an advanced forum for research findings in areas related to sustainability and sustainable development. The journal publishes original research articles, reviews, conference proceedings (peer reviewed full articles) and communications. I am confident you will find the journal contributes to enhancing understanding of sustainability and fostering initiatives and applications of sustainability-based measures and activities.

Editor-in-Chief

Prof. Dr. Steve W. Lyon

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