

## Special Issue

# Life Cycle Assessment (LCA) for Sustainable Development of Emerging Technologies and Industries

### Message from the Guest Editor

This Special Issue focuses on life cycle assessment (LCA) as a critical tool for sustainable development in emerging technologies and industries. LCA provides a holistic framework for evaluating the environmental impacts of new technologies and industrial processes across their entire lifecycle. This Special Issue explores the latest LCA methodologies, case studies, and best practices, emphasizing the need for integration into decision-making processes. Contributors discuss the potential of LCA in guiding innovation towards environmental sustainability, resource efficiency, and climate resilience. This Special Issue aims to inform and inspire researchers, policymakers, and practitioners towards a more sustainable future. Research areas may include, but are not limited to, the following:

- Life cycle assessment (LCA);
- Sustainable development;
- Emerging technologies;
- Industries;
- Environmental impacts;
- Decision making;
- Resource efficiency;
- Climate resilience.

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### Guest Editor

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### Deadline for manuscript submissions

closed (1 November 2025)



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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.

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## Editor-in-Chief

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