

Special Issue

Life Cycle Assessment for Real-World Applications

Message from the Guest Editors

Life cycle assessment (LCA) has evolved from a research-oriented analytical tool into a critical decision-support framework for driving climate neutrality, resource efficiency and circular economy transitions. As industries, policymakers and researchers face increasingly complex environmental challenges, there is a growing demand for applied LCA methodologies that bridge scientific innovation with real-world implementation. This Special Issue in *Applied Sciences* focuses on next-generation LCA methodologies, practical decision support for policy and industry, and the role of LCA in accelerating sustainable transitions. This collection aims to consolidate cutting-edge advancements in applied LCA and provide actionable insights for optimizing industrial processes, informing evidence-based policy and advancing net-zero strategies. We welcome original research articles, reviews, methodological developments and applied case studies that translate rigorous LCA practices into tangible solutions for academia and industry.

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About the Journal

Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal *Applied Sciences* has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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