



Balancing Energy and Environment: A Life Cycle Assessment Perspective

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Message from the Guest Editors

Climate change, driven by human activities, has led to more frequent and severe weather events, disrupted ecosystems, and rising sea levels. Simultaneously, biodiversity loss, deforestation, and pollution are undermining the Earth's natural resilience. Amid these challenges, the quest for sustainable energy sources and practices has emerged as a linchpin in our efforts to mitigate and adapt to these environmental crises. In this context, this special issue aspires to delve deep into the confluence of energy and environmental sustainability, offering a fresh perspective through the Life Cycle Assessment prism. Potential topics include, but are not limited to, the following:

- Renewable Energy Technologies
- Solar and Wind energy
- Hydrogen systems
- Waste-to-Energy
- Bioenergy and Biomass
- Bioenergy Feedstocks
- Thermochemical conversion
- Biofuels for Transportation
- Energy Efficiency Measures
- Energy Storage Systems and Batteries
- Carbon Capture and Storage (CCS)
- Combined Heat and Power (CHP) Systems
- Socioeconomic Aspects in the LCA of Energy Systems
- Policy and Regulation





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Message from the Editor-in-Chief

Environmental issues are quickly becoming central political, economic and academic topics of the twenty-first century. A large number of modern challenges are directly or indirectly caused by complex interactions between environmental issues. Such issues require interdisciplinary research, knowledge and insights to understand and, ultimately, for solutions to be found. Through the journal *Environments*, we strive to create a platform for meaningful discourse by accepting contributions from a wide range of fields. We sincerely hope you will consider publishing your distinguished work in this highly-accessible, peer-reviewed journal.

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