Special Issue

Life Cycle Assessment: Methodological Advances and Practical Pathways for Sustainable Systems

Message from the Guest Editors

Life Cycle Assessment (LCA) has emerged as a critical tool for evaluating the environmental impacts of products, processes, and services across their entire life cycle, from the extraction of raw materials to their disposal. As global challenges such as climate change, resource depletion, and environmental degradation continue to intensify, the need for robust and comprehensive LCA methodologies has never been greater. This Special Issue aims to bring together cutting-edge research that advances the field of LCA, addressing both methodological innovations and practical applications. We invite contributions that explore the latest developments in LCA, including but not limited to the following areas: the integration of LCA with other sustainability assessment tools, advancements in data quality and uncertainty analysis; the application of LCA in emerging sectors such as the circular economy and renewable energy sectors; and the role of LCA in policy-making and decision support. By fostering interdisciplinary collaboration, this Special Issue seeks to provide a platform for researchers, practitioners, and policymakers to share insights...

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The intricate relationship between theory and experiment is the cornerstone of engineering progress. At the Journal of Experimental and Theoretical Analyses (JETA), we are committed to exploring these connections through rigorous and innovative research. The journal is a dedicated platform for presenting pioneering analyses that push the boundaries of what is possible in engineering.

Our journal serves as a crucial nexus where theoretical insights meet experimental validation, advancing the understanding of complex engineering phenomena. The comprehensive exploration of these topics not only contributes to academic knowledge, but also leads to practical applications that address real-world engineering challenges.

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