



Advances in Buildings Life Cycle Assessment and Energy-Efficient Design

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Deadline for manuscript submissions:

closed (30 September 2025)

Message from the Guest Editors

Dear Colleagues,

Buildings account for a significant portion of global energy consumption and environmental impact. With the growing demand for energy efficiency and reduced environmental impact, the design and operation of sustainable buildings have become critical areas of research. Life Cycle Assessment (LCA) offers a comprehensive framework for evaluating the environmental impacts of products and processes throughout their entire life cycle. Applied to buildings, LCA assesses the environmental impacts at every stage—from material sourcing and construction to operation and the eventual building demolition or reuse.

This Special Issue aims to explore innovative research that integrates LCA methodologies to improve the energy efficiency, carbon footprint, and overall environmental performance of buildings. Submissions that employ frameworks like Life Cycle Analysis, Life Cycle Costing, Circular Economy, and related approaches are especially welcome. Researchers are encouraged to submit studies that push the boundaries of current knowledge and offer new solutions to one of the most pressing global challenges: sustainable building practices.





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Message from the Editor-in-Chief

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