

Special Issue

Green Roof Benefits, Performances and Challenges

Message from the Guest Editor

The scope of the issue encompasses a detailed examination of various aspects of green roofs, including their ecological, economic, and social impacts in the background of current trends and policies. It aims to synthesize existing research, identify knowledge gaps, and propose solutions to the challenges faced in green roof implementation. This issue aims to provide a comprehensive understanding of green roofs, facilitating informed decision-making among stakeholders, including urban planners, policymakers, and architects. By situating the discussion of green roof benefits, performances, and challenges within the broader context, this issue highlights the importance of green roofs in sustainable urban development and calls for a collaborative approach to overcoming the challenges they face.

- green roofs
- rainwater retention and runoff delaying
- thermal aspects
- environmental benefits
- stormwater management
- innovative construction materials
- ecosystem services
- landscape architecture and planning
- adaptation to climate change
- climate change mitigation strategies
- sustainable techniques
- performance and challenges in different geographical regions

Guest Editor

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Deadline for manuscript submissions

closed (31 August 2025)



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Message from the Editor-in-Chief

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.

Editor-in-Chief

Prof. Dr. Steve W. Lyon

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