

Special Issue

Innovative Building Envelope Solutions for Sustainable and Energy-Efficient Buildings

Message from the Guest Editor

This Special Issue explores advancements in building envelope design, materials, and technologies, with a focus on simulation-based optimization, real-world applications, and long-term sustainability assessments. Topics of interest include, but are not limited to, the following:

Energy-efficient building envelope (façade, window, roof, etc.) designs and their impact on building performance;

Simulation and modeling approaches for optimizing building envelope systems;

Integration of smart and adaptive technologies for dynamic climate response;

Sustainability assessments and life cycle analysis of building envelope solutions;

Case studies on innovative building envelope applications in new and existing buildings;

The role of policy and regulation in shaping future building envelope technologies.

This Special Issue brings together research and practical applications, offering a comprehensive perspective on how innovative building envelope systems contribute to improved building performance, reduced environmental impact, and long-term sustainability. We invite researchers, engineers, and industry experts to contribute original studies, reviews, and case reports.

Guest Editor

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About the Journal

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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