

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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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. *Sustainability* publishes original research articles, review 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.

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