

Special Issue

Advancing Sustainable Building Practices: State of the Art in Thermal Insulation Materials, Energy Efficiency, and Technological Innovations

Message from the Guest Editors

The pursuit of energy efficiency within the building sector is a pivotal challenge against the backdrop of global sustainability goals. Particularly, the development and implementation of both traditional and cutting-edge thermal insulation materials play a crucial role in the architectural paradigm shift towards energy-efficient buildings. This transformation is further catalyzed by the integration of renewable materials, fostering not only thermal efficiency but also ecological balance. Besides innovative materials, the general increased establishment of advanced technological systems and devices in buildings has pushed the tendency to make the whole construction sector resilient and adaptable to climate change. This Special Issue aims to spotlight state-of-the-art thermal insulation materials, focusing on their capacity for energy saving and contribution to CO₂ reduction. We invite the submission of original research articles and reviews for this Special Issue.

Guest Editors

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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.

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