



Strategies towards Energy and Climate-Resilient Buildings

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Deadline for manuscript submissions:

closed (4 November 2023)

Message from the Guest Editors

Dear Colleagues:

The building sector plays a crucial role in pursuing environmental sustainability, given its high energy consumption and environmental impact. Improving buildings' energy efficiency, through innovative envelope constructive solutions and/or renewable energy systems, is the key strategy. In this perspective, building-integrated greenery systems can enhance building thermal performance and reduce energy demand for building air conditioning. It is important analyzing the performance of different techniques to find optimized configurations in each climate region. Contributions on buildings' passive design, nature-based solutions, integration of renewable energy sources, and energy behavior of sustainable technologies/materials integrated in new, existing, or renovated urban and rural buildings are encouraged.

In this SI, research articles, reviews, communications, and concept papers are welcome. Research areas may include (but are not limited to) the following:

Climate-resilient architecture

Current and new practices for Nearly Zero-Energy Buildings
Energy and environmental analysis of innovative technologies for high-energy-performance buildings





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