



Sustainable Architecture Regards to Global Challenges: Implementation and Evaluation

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Message from the Guest Editors

Dear Colleagues,

The construction sector is responsible for half of the world's extraction of natural resources, nearly a third of total global final energy consumption, and one-third of global carbon dioxide emissions, and it also produces the most waste of any industry.

This Special Issue invites all kinds of integrated research that are aimed at real problem-solving through sustainable architecture. We invite designers, researchers and educators to exchange their knowledge and experience in order to improve the natural and built environment for future generations. Potential topics include, but are not limited to:

- Low energy and low carbon buildings;
- The embodied energy of materials;
- The whole life cycle of buildings;
- Zero waste constructions;
- Environmental impact assessment;
- Resilient cities and urban growth;
- Energy-efficient and sustainable technologies;
- Education towards and beyond sustainability.

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Message from the Editor-in-Chief

Current urban environments are home to multi-modal transit systems, extensive energy grids, a building stock, and integrated services. Sprawling neighborhoods are composed of buildings that accommodate living and working quarters. However, it is expected that the cities and communities of the future will face complex and enormous challenges, including maintenance, interconnectivity, resilience, energy efficiency, and sustainability issues, to name but a few. A smart city uses advanced technologies and a digital infrastructure to improve the outcomes in every aspect of a city's operations. A smart building optimizes the experience of occupants, staff, and management by using a modern and connected environment. Innovations in technology that can bring dramatic improvements to design, planning, and policy are critical in developing the cities and buildings of the future.

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