

Special Issue

Frontier of Sustainable Building: Green Materials and Novel Structures, Structural Smart Maintenance and Efficient Retrofitting

Message from the Guest Editors

Construction and related industries are responsible for today's warming and the depletion of non-renewable energy/resources. How to achieve sustainable development in the construction industry and extend the service life of the existing structures is a serious topic. The aim of this issue is to investigate the relationship between the environment/resources and construction activities/structural maintenance within the context of sustainable development. It considers the theoretical and methodological basis of approaches designed to quantify the impacts associated with choices made at different stages of the building life cycle, as well as tools designed to evaluate relative environmental and sustainability performance. The scope of this Special Issue includes:

- Indicator systems and indicators for sustainability;
- Sustainable construction materials;
- Technology and tools in sustainable construction;
- Application of AI in building life cycle assessment and service life evaluation;
- Energy efficiency during maintenance;
- Structural retrofitting based on novel materials and technologies;

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Guest Editors

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Deadline for manuscript submissions

closed (15 April 2023)



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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. 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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