## **Special Issue**

## Recent Advances in Sustainable Construction Materials and Structures

## Message from the Guest Editors

As the construction sector strives to address global environmental challenges, sustainable materials and structural innovations have emerged as critical areas of focus. This Special Issue aims to highlight innovative approaches to developing eco-friendly materials, optimizing resource use, and designing resilient, energy-efficient structures. The issue welcomes interdisciplinary perspectives that integrate scientific, technical, and practical insights to foster sustainable construction practices and structural solutions. Topics of interest for this Special Issue include, but are not limited to:

- Development and mechanical characterization of sustainable construction materials.
- Structural optimization for sustainability and resilience.
- Bio-based, earth-based, and renewable materials for construction applications.
- Advanced computational methods for sustainable design.
- Low-carbon concrete, alternative binders, and innovative cement technologies.
- Recycling and upcycling of industrial and construction waste.
- Energy-efficient and net-zero building systems.

### **Guest Editors**

Dr. Fernando Ávila

Dr. María Esther Puertas García

Dr. Chiara Bedon

## Deadline for manuscript submissions

closed (20 July 2025)



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## **About the Journal**

## Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

## Editor-in-Chief

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