

Special Issue

Sustainable Construction: Low-Carbon Materials

Message from the Guest Editor

The SI Sustainable Construction: Low-Carbon Materials in the Sustainability journal's Sustainable Materials section centers on transformative material innovations that support the urgent global transition toward low-carbon, resource-efficient built environments. Building on established research into sustainable construction materials—such as low-carbon concrete, bio-based composites, and earth materials—this issue emphasizes development, characterization, durability, simulation and modelling of sustainable building, and lifecycle performance, including recyclability and end-of-life considerations, to reduce environmental impacts across a construction material's entire life cycle.

- The focus is on low-carbon and eco-friendly construction materials that mitigate greenhouse gas emissions, conserve resources, and enhance building performance.
 - b. Its scope spans novel material formulations, durability assessments, lifecycle and environmental impact analyses, and circular-economy approaches.
 - c. The purpose is to provide an interdisciplinary platform linking material science with sustainability metrics, lifecycle quantification, and practical applications relevant to policy and industry.

Guest Editor

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About the Journal

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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