

Special Issue

Sustainable Building Materials: Concrete and Cement-Based Materials

Message from the Guest Editors

The construction and Building (C&B) sector is one of the largest contributors to the global CO₂ emissions and total energy consumption. The C&B sector primarily uses cement-based materials, while traditional concrete production is known to be highly energy-intensive.

Notably, the C&B sector also generates a huge amount of construction and demolition (C&D) waste, which is mainly dumped in landfills, thus directly damaging the environment and ecosystem. Therefore, to mitigate these problems, sustainable building materials have gained significant attention as a key solution for reducing environmental impacts while maintaining structural performance.

The aim of this special issue, “Sustainable Building Materials: Concrete and Cement-Based Materials”, is to bring together the latest groundbreaking and cutting-edge research findings, focusing on the development, characterization, and applicability of sustainable construction and building (C&B) materials. The goal is to provide a platform for researchers to share advancements that improve concrete and cement-based materials' durability, efficiency, and environmental impact.

Guest Editors

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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. *Sustainability* publishes original research articles, review 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

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