

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. 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

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