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Exploring Innovative Sustainable Building Materials for a Greener Future

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Message from the Guest Editors

Dear Colleagues,

As the world grapples with the urgent need for sustainable development, the construction industry has a vital role to play in shaping a greener future. The demand for innovative sustainable building materials is steadily increasing, driven by the imperative to reduce environmental impact, enhance resource efficiency, and mitigate climate change.

This Special Issue (SI) intends to collect and expand on research in the field of sustainable building materials, delving into their characteristics, advantages, and potential applications. The SI will include papers on the following research topics:

- Reused, recovered, and recycled materials
- Bio-based materials
- Advanced composites
- Environmental performance of building materials, considering their embodied energy, carbon footprint, recyclability
- Possible detrimental effects of conventional construction materials on the environment
- Technical attributes of sustainable building materials, including their strength, durability, acoustic and thermal properties, suitability for different applications
- Economic aspects of sustainable building materials
- Circular materials for a circular economy and built environment



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Special Issue



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Message from the Editor-in-Chief

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