



Innovative Materials, Nature-Based Solutions and Energy-Efficient Solutions in Sustainable Buildings and Cities

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

The Special Issue addresses critical challenges in construction and urban sustainability. This focus arises from the urgent need to mitigate climate change impacts, reduce resource consumption, and enhance the livability of urban areas, which are responsible for significant energy consumption and greenhouse gas emissions. The scope of this issue includes the development, integration, and evaluation of new materials, technologies, and practices that promote environmental sustainability, social resilience, and economic feasibility in urban planning and construction.

This issue ties closely to broader discussions on sustainable urban development, climate adaptation, and resource efficiency and innovation. This issue has an interdisciplinary approach, integrating contributions on material science, construction fields, NBS, energy efficiency and management, and urban sustainability. It also intersects with circular economy principles, where materials are designed for reuse and energy systems are made more sustainable through renewable integration and efficiency improvements.

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Guest Editor





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Message from the Editor-in-Chief

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