

Special Issue

Green Building Materials for Net-Zero Construction

Message from the Guest Editor

This Special Issue aims to consolidate diverse research perspectives and practical approaches to green building materials for Net-Zero construction. It will critically examine emerging methodologies, smart materials, and advanced techniques that enhance energy efficiency, reduce waste, and promote green practices. Furthermore, the issue seeks to foster interdisciplinary collaboration and knowledge exchange among researchers, engineers, and practitioners, bridging gaps between theory and application. By presenting cutting-edge developments and alternative solutions, the contributions will support the evolution of green building practices and inform future research directions. Ultimately, this collection aspires to advance the discourse on green building materials for Net-Zero construction, driving progress toward environmentally responsible and resource-efficient building systems.

Guest Editor

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About the Journal

Message from the Editor-in-Chief

Current urban environments are home to multi-modal transit systems, extensive energy grids, a building stock, and integrated services. Sprawling neighborhoods are composed of buildings that accommodate living and working quarters. However, it is expected that the cities and communities of the future will face complex and enormous challenges, including maintenance, interconnectivity, resilience, energy efficiency, and sustainability issues, to name but a few. A smart city uses advanced technologies and a digital infrastructure to improve the outcomes in every aspect of a city's operations. A smart building optimizes the experience of occupants, staff, and management by using a modern and connected environment. Innovations in technology that can bring dramatic improvements to design, planning, and policy are critical in developing the cities and buildings of the future.

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