

Special Issue

Circular Functional Materials for Healthy and Resilient Buildings

Message from the Guest Editors

This Special Issue will focus on advanced, functional, and circular materials for sustainable buildings that support healthy living, with an emphasis on building envelopes and interior components that measurably improve energy performance, indoor environmental quality, and long-term resource efficiency. The scope spans materials for load-bearing and structural elements, such as walls, beams, and columns, as well as assemblies used in facades, insulation systems, coatings, membranes, panels, and retrofit solutions, and highlights multifunctional performance across thermal, acoustic, moisture/transport, and electromagnetic domains. By emphasising interconnected trade-offs and promoting the use of decision-support tools and monitoring frameworks, this Special Issue will bridge materials science, building physics, and sustainability assessment, helping inform evidence-based policy, procurement, and scalable building practice. For further reading, please follow the link to the Special Issue Website at:

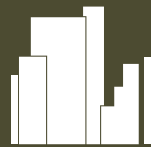
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About the Journal

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.

Editor-in-Chief

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