



Editorial Board Members' Collection Series: 'Building Materials and Repair & Renovation'

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Message from the Guest Editors

This Special Issue of *Buildings* is intended to present an ample variety of thematic areas in relation to all aspects of Building Materials, and Repair and Renovation.

“Building Materials and Repair and Renovation” is a popular Section of the journal *Buildings*, with a large number of published articles. The objective of this Section is to collect and spread valuable scientific research dealing with innovative, smart, and eco-friendly building materials addressing the general sustainability of buildings and infrastructure systems. This section also focuses on promoting and disseminating materials, tools, and techniques related to the repair and rehabilitation of older structures and building components in an eco-friendly manner. Multidisciplinary research and cross-cutting techniques are encouraged with the support of a broad range of methodological and technical approaches, such as advanced experimental tests, numerical methods, and artificial intelligence.

Papers selected for this Special Issue will be subject to peer review, with the goal of rapid and wide dissemination of research results.





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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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