

Conservation of Building Materials

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

Degradation of materials is an important source of loss of value in built heritage; therefore, the conservation of constituent materials is key to preserve the cultural significance of notable constructions. A large panoply of complex strategies is available for varied situations; however, most actions involving objects with cultural value, especially direct ones, are incredibly challenging and delicate as they must be effective, comply with conservation principles, and be sustainable.

Understanding the significance of the building, the characteristics of the materials, and the underlying causes of the problems is crucial to undertake the most suitable options, which may implicate traditional strategies or cutting-edge technologies and materials.

This Special Issue aims to divulge research works related to the conservation of building materials, including mortar, natural stone, brick, tile, glass, metal, wood, adobe, and other historic building materials.

Conservation of concrete is emerging due to the significance of some concrete buildings and structures; thus, contributions on cementitious materials are also welcome.



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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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