Special Issue

Interactions of Chemicals with Building Materials

Message from the Guest Editors

Building materials are in close contact with various chemical substances for their protection or improvement of their chemical, physical, and mechanical properties and application in practice. Research on such interactions has exhibited dynamic progress in recent years. Some commercial or developmental chemical mixtures can lead to protection against biological agents, fires, corrosion, and weather effects but could conversely lead to an increase in the levels of various metals or organic chemicals in nature. For this reason, this Special Issue of *Buildings* deals research on chemical substances, the incorporation of natural or artificial components into materials, development of ecofriendly building materials, and the use of methods for chemical analyses in the building environment. The protection of historical monuments requires advanced solutions, and therefore[...] For further reading, please follow the link to the Special Issue Website at:https://www.mdpi.com/journal/buildings/special_issues/Interactions_Chemicals_Building_Materials

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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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