Topical Collection

Buildings and Fire Safety

Message from the Collection Editors

In this Special Issue of *Buildings*, we plan to publish articles devoted to research in the development of fire protection for public building structures that usually have a mass presence of people (stadiums, museums, etc.), as well as building structures of industrial enterprises (oil and gas plants and offshore oil platforms). The fire resistance of structures, formulations of fire retardant coatings, and the modeling of such systems in various software systems will be considered. The Special Issue will detail the behavior of various types of structures and materials (wood, reinforced concrete, steel, etc.) when exposed to a fire, including a hydrocarbon fire typical for oil refineries. We also invite researchers involved in the impact of the cryogenic bottling of liquefied gases on fire protection means.

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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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