



Research on Performance of Buildings Structures and Materials

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Message from the Guest Editor

Any building must possess acceptable structural performance to protect human safety, building functions, comfort, and property from various forces acting on the building. This point signifies the great importance of the performance investigations of the building structures. On the other hand, load-bearing structures of buildings are composed of building materials such as wood, concrete, steel, brick, etc. Therefore, the performance of buildings structures is closely related to the performance of the materials used in buildings.

The aim of this Special Issue is to cover research on the performance of building structures and traditional/high-performance/novel materials utilized in buildings under different conditions.

The submission of original research studies, experimental and/or numerical investigations, and review papers that are focused on the performance of buildings' main structures, structural components, and materials is warmly encouraged.



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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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