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Research on the Performance of Traditional, New and Potential Building Materials: 2nd Edition

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Message from the Guest Editors

Building materials are always new subjects as they evolve with the development of science and technology. The interests and enthusiasm of the researchers and scientists focused on these building materials resulted in the publication of the Special Issue "Research on the Performance of Traditional, New and Potential Building Materials (1st Edition)", which aroused considerable attention.

This second edition of the Special Issue still provides an open forum to discuss the various performances of traditional, new and potential building materials. The topics of interest include, but are not limited to, the above examples; all traditional, new and potential materials used in building engineering are welcomed. The scopes cover the static (e.g., compression, tension, bending) mechanical behaviors, resistances against dynamic actions (e.g., impact, fatigue and seismic), ductility performance of the building materials and corresponding structural members, investigated utilizing a variety of techniques (e.g., analytical, numerical, and experimental methods).

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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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