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Sustainability and Resiliency of Building Materials and Structures

Guest Editors:

Dr. Shan Gao

Dr. Jingxuan Wang

Dr. Dewen Kong

Dr. Yong Liu

Deadline for manuscript submissions:
closed (15 April 2023)

Message from the Guest Editors

Dear Colleagues,

The sustainability and resiliency of building materials and structures under single/multiple loading conditions is worthy of attention, since complex loading conditions reduce the durability of building materials and structures, especially under fire/high-temperature, freeze–thaw cycling, dry–wet cycling and salt corrosion.

The aim of this Special Issue is to publish papers that advance the sustainability and resiliency of building materials and structures under complex loading conditions.

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Editor-in-Chief

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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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