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The Impact of Building Materials on Construction Sustainability

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Deadline for manuscript submissions:
closed (31 July 2023)

Message from the Guest Editors

Dear Colleagues,

The sustainable development of our society urgently requires the transformation and innovation of the traditional civil engineering industry. The breakthroughs in novel technologies such as advanced materials, artificial intelligence, low-carbon technologies, and resilient structures provide brand new opportunities for the development of civil engineering disciplines. The main aim of this Special Issue, "The Impact of Building Materials on Construction Sustainability", in *Buildings* is to provide a platform for the discussion of the major research challenges and achievements in the development of advanced building materials for the construction and maintenance of more intelligent, livable, resilient, and sustainable buildings. This Special Issue aims to present the recent and latest findings on the development of environmentally friendly materials and solutions to the problems associated with the achievement of sustainability and life quality in buildings.

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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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