



materials



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Sustainability of Building Materials and Civil Engineering Materials

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Message from the Guest Editors

The construction and building industry are one of the world economy's largest sectors, but also one of the largest contributors to environmental disruption and pollution. Therefore, the sector must shift towards sustainable. Firstly, the embedded footprint of the building and civil engineering materials encompasses extraction, manufacturing, construction, maintenance, and disposal. Hence, the replacement of raw materials by residues in a circular economy approach, reduce energy intensity, wastes, and emissions, or a longer service life may with easier recyclability are areas that hold enormous potential as solutions for lowering environmental impacts. Secondly, these construction materials highly influence the operation of buildings and infrastructures. Thus, improvements related to thermal isolation, hygroscopic behavior, or mechanical response, among others, can help engineers to reduce energy consumption, living discomfort, or the size of structures. For these reasons, this Special Issue is aimed to show the most relevant advances related to building and civil engineering materials from the perspective of a more environmentally friendly footprint.



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Special Issue



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Message from the Editor-in-Chief

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