Special Issue

Sustainability of Building Materials and Civil Engineering Materials

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 shi3 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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Message from the Editor-in-Chief

Materials (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

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