Special Issue

Recycled Materials in Concrete: Towards a Circular Economy in Construction

Message from the Guest Editors

In an era marked by increasing environmental challenges, such as climate change, land degradation, and water scarcity and quality, the need for innovative and comprehensive sustainable practices is urgent in the concrete industry. From a life cycle perspective, it is imperative to utilize recycled materials in concrete to effectively mitigate waste generation and the carbon footprint of concrete production. Over the past few decades, the valorization of recycled materials into sustainable construction developed rapidly. This Special Issue aims to gather works related to the use of recyclable materials in the composition of concrete. The works may contain investigations related to its mechanical properties, the behavior of concrete in a fresh state, its durability, its thermal and acoustic properties, economic evaluations, ease of execution, or the repair and reinforcement of the elements built with this material. Contributions related to research work and applications of these materials are welcome.

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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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