

Special Issue

Advances in Sustainable and High Performance Cement Based Composites

Message from the Guest Editors

It is a well-known fact that the construction sector, in its broadest sense, is one of the major causes of human environmental impact on the earth. The cement industry is the largest source of CO₂ emissions in the entire industry, emitting around 800 kg of CO₂ per tonne of cement produced. It is, therefore, an urgent need to decarbonize this activity.

The choice of sustainable and high-performance materials can be a key to reducing the footprint of this activity on the planet. On the other hand, materials composed of a mineral matrix reinforced with sustainable fibers are a very versatile product that can play multiple roles in the building, from pavements, coatings, and roofing plates, to elements for interior partitions.

In this Special Issue we aim to provide the latest developments in research on sustainable composite materials of the mineral matrix (and, therefore, gypsum, lime, cement of all kinds, geopolymers, etc.), reinforced with any type of fiber. We want to know and collect a representative sample of the materials being developed in the laboratory as a sustainable alternative to existing products on the market, which could be replaced due to their good outputs.

Guest Editors

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About the Journal

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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